Date: 21.04.2021



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Kit Components

Kit Product No.	Kit Product Description
212539	KIT GRAM STAIN STABILIZED

Kit Component(s)	Kit Component(s) Description	
0332975BJAA	Gram Crystal Violet	
0333075BJAA	GRAM DECOLORIZER 250ML	
0333275BJAA	Gram Safranin	
0334275BJAA	STABILIZED GRAM IODINE 250ML	

IMDG

UN Number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9 Label(s): 9

EmS No.: F-A, S-P

Packing Group: II

Environmental Hazards: Not regulated.

Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN Number: UN 3316
Proper Shipping Name: Chemical kit

Transport Hazard Class(es):

Class: 9

Date: 21.04.2021



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Label(s): 9MI Packing Group: II

Environmental Hazards: Not regulated.

Marine Pollutant: No

Cargo aircraft only: Forbidden.

Special precautions for user: Not regulated.

Please note: If a listed component does not have a corresponding document included, this means that the product is not hazardous and does not require a Safety Data Sheet.



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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0334275BJAA	STABILIZED GRAM IODINE 250ML	No data available

Other means of identification

SDS number: 088100177510

Recommended use and restriction on use

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152 USA

Telephone: 1 844 823 5433 Fax: not available Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Category 1

Irritation

Respiratory sensitizer Category 1 Skin sensitizer Category 1

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Specific Target Organ Toxicity -

Category 1

Repeated Exposure

Environmental Hazards

Acute hazards to the aquatic

Category 3

environment

Chronic hazards to the aquatic

environment

Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H315: Causes skin irritation.

H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H317: May cause an allergic skin reaction.

H372: Causes damage to organs through prolonged or repeated

exposure.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P284: [In case of inadequate ventilation] wear respiratory

protection.

P272: Contaminated work clothing should not be allowed out of

the workplace.

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.



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Response: P304+P341: IF INHALED: If breathing is difficult, remove victim

to fresh air and keep at rest in a position comfortable for

breathing.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER/doctor.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical

advice/attention.

P310: Immediately call a POISON CENTER/doctor. P321: Specific treatment (see on this label). P363: Wash contaminated clothing before reuse.

Disposal: P501: Dispose of contents/container to an appropriate treatment

and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Pyrrolidinone, 1-ethenyl, homopolymer, compd. with iodine	No data available.	25655-41-8	10%
Potassium iodide (KI)	No data available.	7681-11-0	1.9%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

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General information: Causes serious eye damage. Causes skin irritation. May cause

allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Get immediate medical

advice/attention.

Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). Do NOT induce vomiting. Get medical attention

immediately.

Inhalation: Get medical attention if any discomfort continues. Provide fresh

air, warmth and rest, preferably in comfortable upright sitting

position.

Skin Contact: Wash off promptly and flush contaminated skin with water.

Promptly remove clothing if soaked through and flush skin with

water. Get medical attention if symptoms occur. Wash

contaminated clothing before reuse.

Eye contact: Important! Immediately rinse with water for 60 minutes. Get

medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: May cause an allergic skin reaction. May cause allergy or asthma

symptoms or breathing difficulties if inhaled. Causes serious eye

damage. Causes skin irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Get immediate medical advice/attention. Wash off promptly and

flush contaminated skin with water. Promptly remove clothing if

soaked through and flush skin with water.

5. Fire-fighting measures

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General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and

smoking. Ventilate. Use water to keep fire exposed containers

cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical:

Fire or excessive heat may produce hazardous decomposition

products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber

boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up:

Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

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Environmental Precautions:

Do not release into the environment. Environmental manager

must be informed of all major spillages.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Adequate ventilation should be provided whenever the material is

heated or mists are generated.

Safe handling advice: Wash at the end of each work shift and before eating, smoking

and using the toilet. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes contaminated. When using do not eat,

drink or smoke. Read and follow manufacturer's

recommendations. Use personal protective equipment as

required.

Contact avoidance

measures:

No data available.

Hygiene measures: Do not eat, drink or smoke when using the product. Wash

promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid

contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage

Safe storage conditions: Store in tightly closed original container in a dry, cool and well-

ventilated place.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

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Control Parameters

Occupational Exposure Limits

ccapational Exposure Elimits				
Chemical Identity	Туре	Exposure Limit Values	Source	
Potassium iodide (KI) - Particulate.	AN ESL	5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)	
	ST ESL	50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)	
Potassium iodide (KI) - Inhalable fraction and vapor.	TWA	0.01 ppm	US. ACGIH Threshold Limit Values, as amended (12 2010)	

Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be

cleaned.

Eye/face protection: Chemical goggles and face shield are recommended.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory If engineering controls do not maintain airborne concentrations

Protection: below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Hygiene measures: Do not eat, drink or smoke when using the product. Wash

promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid

contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.

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9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid

Color: According to product specification.

Odor: Characteristic
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling No data available.

range:

Flash Point:

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water:Completely SolubleSolubility (other):No data available.Partition coefficient (n-No data available.

octanol/water):

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:Not determined.

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10. Stability and reactivity

Reactivity: Product is not reactive under normal conditions and

recommended use. Stable

Chemical Stability: No data available.

Possibility of hazardous

reactions:

Stable; however, may decompose if heated. None under normal

conditions.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition

Products:

By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Ingestion: Ingestion may cause severe irritation of the mouth, the

esophagus and the gastrointestinal tract.

Inhalation: No data available.

Skin Contact: Causes skin irritation. Prolonged or repeated contact may cause

skin sensitization in susceptible individuals.

Eye contact: May cause chemical eye burns.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 26,315.79 mg/kg

Dermal

Product: No data available.

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Potassium iodide (KI) LOAEL (Rat(Male), Oral, 19 Weeks): 1,000 ppm(m) Oral

Experimental result, Weight of Evidence study

LOAEL (Rat(Female, Male), Oral): 100 mg/l Oral Experimental

result, Weight of Evidence study

NOAEL (Human(Female, Male), Oral): 0.01 mg/kg Oral

Experimental result, Key study

LOAEL (Rat(Male), Oral, 28 d): 500 mg/kg Oral Experimental

result, Weight of Evidence study

LOAEL (Rat, Oral, 12 Weeks): 70 mg/kg Oral Experimental result,

Supporting study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Potassium iodide in vivo (Rabbit): Moderately irritating Experimental result, Key

(KI) study

Serious Eye Damage/Eye Irritation

Product: No data available.

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Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Potassium iodide Skin sensitization:, in vivo (Human): Non sensitising

(KI)

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

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Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: Harmful to aquatic organisms.

Aquatic Invertebrates

Product: Harmful to aquatic organisms.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Potassium iodide (KI) LC 100 (Oncorhynchus mykiss, 22 d): 166,002.8 mg/l

Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

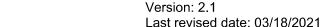
Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

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Potassium iodide (KI) 50 % (3,240 h) Sediment Estimated by calculation, Key study

50 % (360 h) Detected in water. Estimated by calculation, Key

study

50 % (360 h) Sediment Estimated by calculation, Key study

50 % (720 h) Soil Estimated by calculation, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Potassium iodide (KI) Various, Bioconcentration Factor (BCF): 2.27 Aquatic sediment

Estimated by calculation, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,

compd. with iodine

Potassium iodide (KI) No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: Discharge, treatment, or disposal may be subject to national,

state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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Contaminated Packaging: No data available.

14. Transport information

DOTUN Number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Class: Not regulated.
Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

Special precautions for user: Not regulated.

IMDG

UN Number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Class: Not regulated.
Subsidiary risk: Not regulated.
EmS No.: Not regulated.
Packing Group: Not regulated.

Environmental Hazards

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

SDS US 14/17



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IATA

UN Number: Not regulated. Proper Shipping Name: Not regulated.

Transport Hazard Class(es):

Class: Not regulated. Subsidiary risk: Not regulated. Packing Group: Not regulated.

Environmental Hazards

Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

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US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16.Other information, including date of preparation or last revision

Issue Date: 03/18/2021

Version #: 2.1

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Revision Information:

Further Information: No data available.

Disclaimer: Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more

easily accessed. Due to the possibility of errors during

transmission, BD makes no representations as to the completeness

or accuracy of the information.

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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333275BJAA	Gram Safranin	No data available

Other means of identification

SDS number: 088100177508

Recommended use and restriction on use Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152 USA

Telephone: 1 844 823 5433 Fax: not available Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Label Elements

Hazard Symbol:

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Signal Word: Warning

Hazard Statement: H226: Flammable liquid and vapor.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment. P241: Use explosion-proof [electrical/ventilating/lighting/...]

equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower]. P370+P378: In case of fire: Use water spray, fog, CO2, dry

chemical, or alcohol resistant foam.

Storage: P403: Store in a well-ventilated place.

P235: Keep cool.

Disposal: P501: Dispose of contents/container to an appropriate treatment

and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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Other hazards which do not result in GHS classification:

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded

equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol	No data available.	64-17-5	19%
Methanol	No data available.	67-56-1	1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical attention if symptoms occur.

Ingestion: Call a physician or poison control center immediately. Only induce

vomiting at the instruction of medical personnel. Never give

anything by mouth to an unconscious person.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable

upright sitting position.

Skin Contact: Wash contact areas with soap and water. Remove contaminated

clothing. Launder contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If

easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

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Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and

smoking. Ventilate. Use water spray to keep fire-exposed

containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding

materials.

Unsuitable

extinguishing media:

Not applicable

Specific hazards arising

from the chemical:

Fire or excessive heat may produce hazardous decomposition

products.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No unusual fire or explosion hazards noted.

Special protective equipment for fire-

fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber

boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

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Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g.

Local and general

ventilation):

No special requirements under ordinary conditions of use and with

adequate ventilation.

Safe handling advice: When using do not eat, drink or smoke. Read and follow

manufacturer's recommendations. Use personal protective

equipment as required.

Contact avoidance

measures:

No data available.

Hygiene measures: Observe good industrial hygiene practices.

Storage

Store in a cool, dry place. Keep container tightly closed. **Safe storage conditions:**

No data available. Safe packaging materials:

Storage Temperature: No data available.

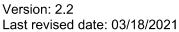
8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

occupational Exposure Limits				
Chemical Identity	Туре	Exposure Limit Values		Source
Ethanol	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1,000 ppm	1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL		1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental

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				Quality), as amended (12 2010)
	ST ESL		10,000 ppb	US. Texas. Effects Screening Levels
				(Texas Commission on Environmental
				Quality), as amended (12 2010)
	AN ESL		1,880	US. Texas. Effects Screening Levels
			µg/m3	(Texas Commission on Environmental
				Quality), as amended (12 2010)
	ST ESL		18,800	US. Texas. Effects Screening Levels
			μg/m3	(Texas Commission on Environmental
				Quality), as amended (12 2010)
	TWA PEL	1,000 ppm	1,900	US. California Code of Regulations, Title
			mg/m3	8, Section 5155. Airborne Contaminants,
				as amended (08 2010)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as
	3.22			amended (12 2010)
	REL	1,000 ppm	1,900	US. NIOSH: Pocket Guide to Chemical
	IXLL		mg/m3	Hazards, as amended (2005)
	IDLH	3,300 ppm		US. NIOSH. Immediately Dangerous to
	IDEII	,		Life or Health (IDLH) Values, as amended
				(10 2017)
	LEL		3.3 %	US. NIOSH. Immediately Dangerous to
				Life or Health (IDLH) Values, as amended
				(10 2017)
	PEL	1,000 ppm	1,900	US. OSHÁ Table Z-1 Limits for Air
		,	mg/m3	Contaminants (29 CFR 1910.1000), as
				amended (02 2006)
Methanol	STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR
			· · · · J, · · · ·	1910.1000), as amended (1989)
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR
	IVVA		3,	1910.1000), as amended (1989)
	STEL	250 ppm	325 mg/m3	US. Tennessee. OELs. Occupational
	SILL		5,	Exposure Limits, Table Z1A, as amended
				(06 2008)
	TWA	200 ppm	260 mg/m3	US. Tennessee. OELs. Occupational
	1000	• •	<i>5.</i>	Exposure Limits, Table Z1A, as amended
				(06 2008)
	ST ESL		2,620	US. Texas. Effects Screening Levels
	31 ESL		μg/m3	(Texas Commission on Environmental
			1.5,	Quality), as amended (12 2010)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels
	AN ESL			(Texas Commission on Environmental
				Quality), as amended (12 2010)
	ANIECI		262 μg/m3	US. Texas. Effects Screening Levels
	AN ESL			(Texas Commission on Environmental
				Quality), as amended (12 2010)
	CT FC!		2,000 ppb	US. Texas. Effects Screening Levels
	ST ESL		2,000 ppb	(Texas Commission on Environmental
				Quality), as amended (12 2010)
	CTT:	250 nnm	325 mg/m3	US. California Code of Regulations, Title
	STEL	230 ppm	323 mg/m3	8, Section 5155. Airborne Contaminants,
				as amended (08 2010)
	1			as amenaca (oo zoto)

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	200 ppm 260 mg/m2	US. California Code of Regulations, Title
TWA PEL	200 ppm 260 mg/m3	8, Section 5155. Airborne Contaminants,
		as amended (08 2010)
	1 000	,
Ceiling	1,000 ppm	US. California Code of Regulations, Title
		8, Section 5155. Airborne Contaminants,
		as amended (08 2010)
STEL	250 ppm	US. ACGIH Threshold Limit Values, as
		amended (12 2010)
TWA	200 ppm	US. ACGIH Threshold Limit Values, as
		amended (12 2010)
REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical
		Hazards, as amended (2005)
STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical
SILL		Hazards, as amended (2005)
PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air
		Contaminants (29 CFR 1910.1000), as
		amended (02 2006)
IDLH	6,000 ppm	US. NIOSH. Immediately Dangerous to
		Life or Health (IDLH) Values, as amended
		(10 2017)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of	15 mg/l (Urine)	ACGIH BEI (03 2013)
shift.)		

Appropriate Engineering

Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as

> washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be

cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

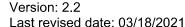
Skin Protection

Hand Protection: Chemical resistant gloves Suitable gloves can be recommended

by the glove supplier. Wash hands after contact.

Other: Wear a lab coat or similar protective clothing.

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Respiratory If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an

acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid

Color: According to product specification.

Odor: Characteristic
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.

Initial boiling point and boiling 79 °C

range:

Flash Point: 38.9 °C

Evaporation rate:

Flammability (solid, gas):

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

No data available.

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water:Completely SolubleSolubility (other):No data available.Partition coefficient (n-No data available.

octanol/water):

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Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:Not determined.

10. Stability and reactivity

Reactivity: Stable under normal temperature conditions and recommended

use.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Not determined.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Metals. Water reactive material.

Hazardous Decomposition

Products:

Stable; however, may decompose if heated.

11. Toxicological information

General information: No data on possible toxicity effects have been found.

Information on likely routes of exposure

Ingestion: No harmful effects expected in amounts likely to be ingested by

accident.

Inhalation: Limited inhalation hazard at normal work temperatures.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Elevated temperatures or mechanical action may form vapors,

mist, or fumes which may be irritating to the eyes, nose, throat,

or lungs.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

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Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 10,000 mg/kg

Dermal

Product: ATEmix: 30,000 mg/kg

Inhalation

Product: ATEmix: 300 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

NOAEL (Mouse(Female, Male), Inhalation, 7,202 - 7,373 h): 0.13 mg/l Inhalation Read-across from supporting substance (structural

analogue or surrogate), Weight of Evidence study

LOAEL (Rat(Female, Male), Oral, <= 90 d): 3 %(m) Oral

Experimental result, Supporting study

NOAEL (Monkey(Female, Male), Inhalation): 6.63 mg/l Inhalation Read-across from supporting substance (structural analogue or

surrogate), Supporting study

LOAEL (Monkey, Inhalation): 4 mg/l Inhalation Read-across from

supporting substance (structural analogue or surrogate),

Supporting study

Methanol NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l Inhalation

Experimental result, Weight of Evidence study

LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation

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Experimental result, Supporting study

NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Inhalation

Experimental result, Supporting study

NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l Inhalation

Experimental result, Supporting study

NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l Inhalation Experimental result, Weight of Evidence study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Ethanol

in vivo (Rabbit): Not irritant Experimental result, Key study

Methanol in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Ethanol in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Methanol in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Methanol Skin sensitization:, in vivo (Guinea Pig): Non sensitising

Carcinogenicity

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

In vivo

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Methanol Oral: Nervous System - Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Aspiration Hazard

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Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Chronic hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Toxicity to Aquatic Plants

Product: No negative effects on the aquatic environment are known.

Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

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Specified substance(s):

Ethanol Potential to bioaccumulate is low.

Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Leuciscus idus, Bioconcentration Factor (BCF): 0.2 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Not specified

Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Methanol Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic

sediment Experimental result, Supporting study

Green algae (Chlorella fusca vacuolata), Bioconcentration Factor

(BCF): 28,400 (Static)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Methanol Log Kow: -0.77

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ethanol soil - Very mobile liquid Methanol No data available.

Other adverse effects: The product is not expected to be hazardous to the environment.

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13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility

in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 3316 UN Proper Shipping Name: Chemical kits

Transport Hazard Class(es)

Class: 9
Label(s): 9
Packing Group: III
Marine Pollutant: No

Special precautions for user: Not regulated.

IMDG

UN Number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9
Subsidiary risk: 9

EmS No.: F-A, S-P

Packing Group: III

Environmental Hazards

Marine Pollutant: No

Special precautions for user: Not regulated.

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IATA

UN Number: UN 3316
Proper Shipping Name: Chemical kit

Transport Hazard Class(es):

Class: 9
Subsidiary risk: 9MI
Packing Group: III

Environmental Hazards

Marine pollutant: No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D001 METHANOL

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Hazards Not Otherwise Classified (HNOC)

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US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<u>Chemical Identity</u> <u>% by weight</u>

Methanol 1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Ethanol which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Methanol which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Ethanol Methanol

US. Massachusetts RTK - Substance List

Chemical Identity

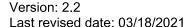
Ethanol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethanol

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US. Rhode Island RTK <u>Chemical Identity</u>

Ethanol

16.Other information, including date of preparation or last revision

Issue Date: 03/18/2021

Version #: 2.2

Revision Information:

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

Further Information: No data available.

Disclaimer: Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more

easily accessed. Due to the possibility of errors during

transmission, BD makes no representations as to the completeness

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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333075BJAA	GRAM DECOLORIZER 250ML	No data available

Other means of identification

SDS number: 088100177507

Recommended use and restriction on use

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152 USA

Telephone: 1 844 823 5433 Fax: not available Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Serious Eye Damage/Eye Category 2A

Irritation

Specific Target Organ Toxicity - Category 3

Single Exposure

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Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P240: Ground and bond container and receiving equipment. P241: Use explosion-proof [electrical/ventilating/lighting/...]

equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P264: Wash thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

Response: P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical

advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

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P312: Call a POISON CENTER/doctor if you feel unwell. P370+P378: In case of fire: Use water spray, fog, CO2, dry

chemical, or alcohol resistant foam.

Storage: P403: Store in a well-ventilated place.

P235: Keep cool.

P233: Keep container tightly closed.

P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment

and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded

equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	75%
2-Propanone	No data available.	67-64-1	25%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical attention if symptoms occur.

Ingestion: Get medical attention if symptoms occur.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable

upright sitting position.

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Skin Contact: Wash contact areas with soap and water. Remove contaminated

clothing. Launder contaminated clothing before reuse.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical

assistance.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and

smoking. Ventilate. Use water spray to keep fire-exposed

containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

media:

Unsuitable None known.

extinguishing media:

cific hazards arising None known.

Specific hazards arising from the chemical:

Special protective equipment and precautions for firefighters

Special fire fighting No unusual fire or explosion hazards noted.

procedures:

Special protective Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber

fighters: boots, and in enclosed spaces, SCBA.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No special precautionary health measures should be needed

under anticipated conditions of use.

Methods and material for containment and cleaning up:

No specific clean-up procedure noted.

Environmental Precautions:

Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

No special requirements under ordinary conditions of use and with

adequate ventilation.

Safe handling advice: When using do not eat, drink or smoke. Read and follow

manufacturer's recommendations. Use personal protective

equipment as required.

Contact avoidance

measures:

No data available.

Hygiene measures: Observe good industrial hygiene practices.

Storage

Safe storage conditions: Store in a cool, dry place. Keep container tightly closed.

Safe packaging materials: No data available.

Storage Temperature: No data available.

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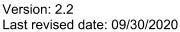
8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Lin	nit Values	Source
2-Propanol	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR
•				1910.1000), as amended (1989)
	STEL	500 ppm	1,225	US. OSHA Table Z-1-A (29 CFR
	0.22		mg/m3	1910.1000), as amended (1989)
	TWA	400 ppm	980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm	1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL		492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	500 ppm	1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL		980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

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				(10 2017)
2-Propanone	STEL	500 ppm		US. ACGIH Notice of Intended Changes
·				(NIC) to Threshold Limit Values, as
				amended (12 2010)
	TWA	200 ppm		US. ACGIH Notice of Intended Changes
	IVVA	pp		(NIC) to Threshold Limit Values, as
				amended (12 2010)
	TIAZA	750 ppm	1,800	US. OSHA Table Z-1-A (29 CFR
	TWA	, 50 pp	mg/m3	1910.1000), as amended (1989)
	CTEL	1,000 ppm	2,400	US. OSHA Table Z-1-A (29 CFR
	STEL	1,000 ppm	mg/m3	1910.1000), as amended (1989)
		1,000 ppm	2,400	US. Tennessee. OELs. Occupational
	STEL	1,000 ppm	mg/m3	Exposure Limits, Table Z1A, as amended
			1119/1113	
		750	1 000	(06 2008)
	TWA	750 ppm	1,800	US. Tennessee, OELs. Occupational
			mg/m3	Exposure Limits, Table Z1A, as amended (06 2008)
	CT TC		2,500 ppb	US. Texas. Effects Screening Levels
	ST ESL		2,300 ppb	(Texas Commission on Environmental
				Quality), as amended (12 2010)
	AN 501		250 ppb	US. Texas. Effects Screening Levels
	AN ESL		230 ppb	(Texas Commission on Environmental
				Quality), as amended (12 2010)
			5,900	US. Texas. Effects Screening Levels
	ST ESL		μg/m3	(Texas Commission on Environmental
			μg/IIIS	Quality), as amended (12 2010)
			E00 ug/m2	
	AN ESL		590 μg/m3	US. Texas. Effects Screening Levels
				(Texas Commission on Environmental
		F00	1 200	Quality), as amended (12 2010)
	TWA PEL	500 ppm	1,200	US. California Code of Regulations, Title
			mg/m3	8, Section 5155. Airborne Contaminants
				as amended (08 2010)
	STEL	750 ppm	1,780	US. California Code of Regulations, Title
			mg/m3	8, Section 5155. Airborne Contaminants
				as amended (08 2010)
	Ceiling	3,000 ppm		US. California Code of Regulations, Title
				8, Section 5155. Airborne Contaminants
				as amended (08 2010)
	TWA	250 ppm		US. ACGIH Threshold Limit Values, as
	1.17/1			amended (03 2015)
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as
	3166			amended (03 2015)
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical
	IXLL			Hazards, as amended (2005)
	PEL	1,000 ppm	2,400	US. OSHA Table Z-1 Limits for Air
		, , , , , , , , , , , , , , , , , , , ,	mg/m3	Contaminants (29 CFR 1910.1000), as
			.5,	amended (02 2006)
	1,5,		2.5 %	US. NIOSH. Immediately Dangerous to
	LEL		2.13 /0	Life or Health (IDLH) Values, as amende
				(10 2017)
		2,500 ppm		US. NIOSH. Immediately Dangerous to
	IDLH	2,300 ppm		Life or Health (IDLH) Values, as amende
IS	<u> </u>			

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(10 2017)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEI (03 2015)

Appropriate Engineering

Controls

No special requirements under ordinary conditions of use and with

adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be

cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection:

Respiratory protection not required.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid

Color: According to product specification.

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Odor: Characteristic

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

Initial boiling point and boiling 56.1 - 82 °C

range:

Flash Point: -6.7 °C

Evaporation rate:

Flammability (solid, gas):

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

No data available.

No data available.

No data available.

Explosive limit - lower:

Vapor pressure:

No data available.

Solubility(ies)

Solubility in water: Completely Soluble Solubility (other): No data available. Partition coefficient (n- No data available.

octanol/water):

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:Not determined.

10. Stability and reactivity

Reactivity: Stable under normal temperature conditions and recommended

use.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Not known.

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Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition

Products:

Not known.

11. Toxicological information

General information: No data on possible toxicity effects have been found.

Information on likely routes of exposure

Ingestion: No harmful effects expected in amounts likely to be ingested by

accident.

Inhalation: Limited inhalation hazard at normal work temperatures.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Do not get in eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No specific symptoms noted.

Inhalation: No specific symptoms noted.

Skin Contact: No specific symptoms noted.

Eye contact: No specific symptoms noted.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 12,000 mg/kg

Dermal

Product: No data available.

Inhalation

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Product: No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s):

2-Propanol NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m)

Inhalation Experimental result, Key study

2-Propanone NOAEL (Mouse(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral

Experimental result, Key study

NOAEL (Mouse(female), Oral, 13 Weeks): 20,000 ppm(m) Oral

Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 30 - 90 d): 500 mg/kg Oral Not

specified, Not specified

LOAEL (Rat(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral

Experimental result, Key study

LOAEL (Mouse(Male), Oral, 14 d): 20,000 ppm(m) Oral

Experimental result, Supporting study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit): Not Classified Experimental result, Key study

2-Propanone in vivo (Guinea pig): Not irritant Experimental result, Weight of

Evidence study

in vivo (Guinea pig): Not irritant Experimental result, Weight of

Evidence study

in vivo (Rabbit): Not irritant Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

Product: No data available.

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Specified substance(s):

2-Propanol in vivo (Rabbit, 1 d): Category 2: Causes serious eye irritation CLP

(1272/2008)

2-Propanone Irritating Exposure for 15 minutes to 1660 ppm causes irritation of

eyes

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

2-Propanol Skin sensitization:, in vivo (Guinea Pig): Non sensitising

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising

Skin sensitization:, in vivo (Mouse): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Chronic hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Toxicity to Aquatic Plants

Product: No negative effects on the aquatic environment are known.

Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

BOD/COD Ratio

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Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

2-Propanone Bioconcentration Factor (BCF): 3 Aquatic sediment Estimated by

calculation, Supporting study

Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic

sediment Experimental result, Not specified

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

2-Propanol No data available. 2-Propanone No data available.

Other adverse effects: The product is not expected to be hazardous to the environment.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: No specific disposal method required.

Contaminated Packaging: No data available.

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14. Transport information

DOT

UN Number: UN 3316 UN Proper Shipping Name: Chemical kits

Transport Hazard Class(es)

Class: 9
Label(s): 9
Packing Group: II
Marine Pollutant: No

Special precautions for user: Not regulated.

IMDG

UN Number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9
Subsidiary risk: 9

EmS No.: F-A, S-P

Packing Group: II

Environmental Hazards

Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN Number: UN 3316
Proper Shipping Name: Chemical kit

Transport Hazard Class(es):

Class: 9
Subsidiary risk: 9MI
Packing Group: II

Environmental Hazards

Marine pollutant: No

Special precautions for user: Not regulated.

SDS US 15/18

Last revised date: 09/30/2020



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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amendedNone present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D001 2-PROPANONE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity % by weight

2-Propanol 1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

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None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

2-Propanol

2-Propanone

US. Massachusetts RTK - Substance List

Chemical Identity

2-Propanol

2-Propanone

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanol

2-Propanone

US. Rhode Island RTK

Chemical Identity

2-Propanol

2-Propanone

16.Other information, including date of preparation or last revision

Issue Date: 09/30/2020

Version #: 2.2

Revision Information: No data available.

Further Information: No data available.

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Version: 2.2 Last revised date: 09/30/2020



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Disclaimer:

Disclaimer:

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Last revised date: 03/18/2021

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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0332975BJAA	Gram Crystal Violet	No data available

Other means of identification

SDS number: 088100177506

Recommended use and restriction on use Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152 USA

Telephone: 1 844 823 5433 Fax: not available Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Serious Eye Damage/Eye Category 2A

Irritation

Carcinogenicity Category 2

Environmental Hazards

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Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 3

Category 3

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: H226: Flammable liquid and vapor.

H319: Causes serious eye irritation. H351: Suspected of causing cancer.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment. P241: Use explosion-proof [electrical/ventilating/lighting/...]

equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P264: Wash thoroughly after handling. P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read

and understood.

P281: Use personal protective equipment as required.

P273: Avoid release to the environment.

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Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical

advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower]. P308+P313: IF exposed or concerned: Get medical

advice/attention.

P370+P378: In case of fire: Use water spray, fog, CO2, dry

chemical, or alcohol resistant foam.

Storage: P403: Store in a well-ventilated place.

P235: Keep cool.

P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment

and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded

equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	5%
Methanol	No data available.	67-56-1	2.5%
Ethanol	No data available.	64-17-5	2.5%
Phenol	No data available.	108-95-2	0.4%
Methanaminium, N-[4- [bis[4- (dimethylamino)phenyl]me thylene]-2,5- cyclohexadien-1-ylidene]- N-methyl-, chloride (1:1)	No data available.	548-62-9	0.3%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Causes serious eye irritation. Suspected of causing cancer.

Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). DO NOT induce vomiting. Get medical attention

immediately.

Inhalation: Get medical attention if any discomfort continues.

Skin Contact: Wash off promptly and flush contaminated skin with water.

Promptly remove clothing if soaked through and flush skin with

water.

Eye contact: Important! Immediately rinse with water for at least 15 minutes.

Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: Causes serious eye irritation. Suspected of causing cancer.

Indication of immediate medical attention and special treatment needed

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Treatment: Get immediate medical advice/attention.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and

smoking. Ventilate. Use water to keep fire exposed containers

cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

media:

Unsuitable Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising

extinguishing media:

from the chemical: products.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No unusual fire or explosion hazards noted.

Special protective equipment for fire-

fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber

Fire or excessive heat may produce hazardous decomposition

boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

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Environmental Precautions:

Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Adequate ventilation should be provided whenever the material is

heated or mists are generated.

Safe handling advice: Avoid contact with eyes. Eye wash facilities and emergency

shower must be available when handling this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Read and follow manufacturer's recommendations. Use

personal protective equipment as required.

Contact avoidance

measures:

No data available.

Hygiene measures: Avoid contact with eyes. Wash hands after contact. Observe good

industrial hygiene practices.

Storage

Safe storage conditions: Store in tightly closed original container in a dry, cool and well-

ventilated place.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
2-Propanol	TWA	400 ppm 980 mg/m3	US. OSHA Table Z-1-A (29 CFR

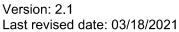
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				1910.1000), as amended (1989)
	CTEL	500 ppm	1,225	US. OSHA Table Z-1-A (29 CFR
	STEL	эоо рртп	mg/m3	1910.1000), as amended (1989)
	73446	400 nnm	980 mg/m3	US. Tennessee. OELs. Occupational
	TWA	400 рріп	500 mg/m5	Exposure Limits, Table Z1A (06 2008)
	<u> </u>	500 ppm	1,225	US. Tennessee. OELs. Occupational
	STEL	300 ppm		Exposure Limits, Table Z1A (06 2008)
			mg/m3	
	AN ESL		200 ppb	US. Texas. Effects Screening Levels
				(Texas Commission on Environmental
				Quality), as amended (12 2010)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels
				(Texas Commission on Environmental
				Quality), as amended (12 2010)
	AN ESL		492 μg/m3	US. Texas. Effects Screening Levels
	AN LSL		1 3,	(Texas Commission on Environmental
				Quality), as amended (12 2010)
			4,920	US. Texas. Effects Screening Levels
	ST ESL		μg/m3	(Texas Commission on Environmental
			μg/1113	
		400	202 / 2	Quality), as amended (12 2010)
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title
				8, Section 5155. Airborne Contaminant
				(08 2010)
	STEL	500 ppm	1,225	US. California Code of Regulations, Title
	3122		mg/m3	8, Section 5155. Airborne Contaminant
			٥,	(08 2010)
	T)4/4	200 ppm		US. ACGIH Threshold Limit Values, as
	TWA	200 pp		amended (12 2010)
	l crri	400 ppm		US. ACGIH Threshold Limit Values, as
	STEL	тоо ррпп		amended (12 2010)
		500 ppm	1,225	US. NIOSH: Pocket Guide to Chemical
	STEL	300 ppm	mg/m3	
		400		Hazards, as amended (2005)
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2005)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000), as
				amended (02 2006)
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to
				Life or Health (IDLH) Values, as amend
				(10 2017)
	TDIII	2,000 ppm		US. NIOSH. Immediately Dangerous to
	IDLH	2,000 ppm		Life or Health (IDLH) Values, as amend
				(10 2017)
Methano l	STEL	2E0 nnm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR
Methanol	SIEL	250 ppili	325 Hig/III3	
		200	262 / 2	1910.1000), as amended (1989)
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR
				1910.1000), as amended (1989)
	STEL	250 ppm	325 mg/m3	US. Tennessee. OELs. Occupational
				Exposure Limits, Table Z1A, as amende
				(06 2008)
	T)4/4	200 ppm	260 mg/m3	US. Tennessee. OELs. Occupational
	TWA	_00 PP///		Exposure Limits, Table Z1A, as amende
				(06 2008)
JS				(00 2000)

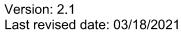
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	ST ESL		2,620 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental
	AN ESL		200 ppb	Quality), as amended (12 2010) US. Texas. Effects Screening Levels (Texas Commission on Environmental
	AN ESL		262 μg/m3	Quality), as amended (12 2010) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	STEL	250 ppm	325 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA PEL	200 ppm	260 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	1,000 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	6,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Ethanol	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1,000 ppm	1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL		1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		10,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL		1,880 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		18,800 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)

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				,
	TWA PEL	1,000 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	3,300 ppm	S.	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	LEL		3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Phenol	TWA	5 ppm	19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 ppm	19 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL		150 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	AN ESL		19 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL		40 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	AN ESL		5 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	TWA PEL	5 ppm	19 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	5 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	250 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

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Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)
Phenol (Phenol with hydrolysis: Sampling time: End of shift.)	250 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)

Appropriate Engineering

Controls

Adequate ventilation should be provided whenever the material is

heated or mists are generated.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Avoid contact with eyes. Wash hands after contact. Observe good

industrial hygiene practices.

9. Physical and chemical properties

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Appearance

Physical state: liquid Form: liquid

Color: According to product specification.

Odor: Characteristic
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling No data available.

range:

Flash Point: 43.3 °C

Evaporation rate:

Flammability (solid, gas):

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):
Flammability limit - lower (%):
No data available.
Explosive limit - upper:
No data available.
No data available.
Vapor pressure:
No data available.

Solubility(ies)

Solubility in water: Completely Soluble
Solubility (other): No data available.

Partition coefficient (n- No data available.

octanol/water):

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:Not determined.

10. Stability and reactivity

Reactivity: Product is not reactive under normal conditions and

recommended use.

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Chemical Stability: No data available.

Possibility of hazardous

reactions:

None under normal conditions.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition

Products:

By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Ingestion: Ingestion may cause severe irritation of the mouth, the

esophagus and the gastrointestinal tract.

Inhalation: Under normal conditions of intended use, this material is not

expected to be an inhalation hazard.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 3,377.64 mg/kg

Dermal

Product: ATEmix: 10,344.83 mg/kg

Inhalation

Product: ATEmix: 120 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

2-Propanol NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m)

Inhalation Experimental result, Key study

Methanol NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l Inhalation

Experimental result, Weight of Evidence study

LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation

Experimental result, Supporting study

NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Inhalation

Experimental result, Supporting study

NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l Inhalation

Experimental result, Supporting study

NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l Inhalation Experimental result, Weight of Evidence study

Ethanol Based on available data, the classification criteria are not met.

NOAEL (Mouse(Female, Male), Inhalation, 7,202 - 7,373 h): 0.13 mg/l Inhalation Read-across from supporting substance (structural

analogue or surrogate), Weight of Evidence study

LOAEL (Rat(Female, Male), Oral, <= 90 d): 3 %(m) Oral

Experimental result, Supporting study

NOAEL (Monkey(Female, Male), Inhalation): 6.63 mg/l Inhalation Read-across from supporting substance (structural analogue or

surrogate), Supporting study

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LOAEL (Monkey, Inhalation): 4 mg/l Inhalation Read-across from

supporting substance (structural analogue or surrogate),

Supporting study

Phenol LOAEL (Rabbit, Dermal, 18 d): 260 mg/kg Dermal Experimental

result, Key study

NOAEL (Rabbit, Dermal, 18 d): 130 mg/kg Dermal Experimental

result, Key study

NOAEL (Rat(Female, Male), Oral, 103 Weeks): 5,000 ppm(m) Oral

Experimental result, Weight of Evidence study

NOAEL (Rat(Female, Male), Oral, 13 Weeks): 5,000 ppm(m) Oral

Experimental result, Weight of Evidence study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit): Not Classified Experimental result, Key study

Methanol in vivo (Rabbit): Not irritant Experimental result, Key study

Ethanol

in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit, 1 d): Category 2: Causes serious eye irritation CLP

(1272/2008)

Methanol in vivo (Rabbit, 24 - 72 hrs): Not irritating

Ethanol in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Respiratory or Skin Sensitization

Product: No data available.

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Specified substance(s):

2-Propanol Skin sensitization:, in vivo (Guinea Pig): Non sensitising

Methanol Skin sensitization:, in vivo (Guinea Pig): Non sensitising

Ethanol Based on available data, the classification criteria are not met.

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

In vivo

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):

Methanol Oral: Nervous System - Causes damage to organs.

Ethanol Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Chronic hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Toxicity to Aquatic Plants

Product: No negative effects on the aquatic environment are known.

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Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

2-Propanol 53 % (5 d) Detected in water. Experimental result, Key study

Methanol 83 - 91 % (3 d) Sediment Experimental result, Supporting study

97 % Detected in water. Experimental result, Key study

71.5 % (5 d) Detected in water. Experimental result, Key study 82.7 % (5 d) Detected in water. Experimental result, Key study

69 % Detected in water. Experimental result, Key study

Ethanol Readily biodegradable

12.9 % Detected in water. Experimental result, Supporting study 89 % (14 d) Detected in water. Experimental result, Supporting

study

69 % Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Key study

45 % Detected in water. Experimental result, Supporting study

Methanaminium, N-

[4-[bis[4-

(dimethylamino)pheny I]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

3.6 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

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Methanol Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic

sediment Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic

sediment Experimental result, Supporting study

Green algae (Chlorella fusca vacuolata), Bioconcentration Factor

(BCF): 28,400 (Static)

Ethanol Potential to bioaccumulate is low.

Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Leuciscus idus, Bioconcentration Factor (BCF): 0.2 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Not specified

Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Phenol Pimephales promelas, Bioconcentration Factor (BCF): 4,300

Aquatic sediment Experimental result, Not specified

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

2-Propanol Log Kow: 0.05

Methanol Log Kow: -0.77

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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2-Propanol No data available.

Methanol No data available.

Ethanol soil - Very mobile liquid
Phenol No data available.

Methanaminium, N-[4- No data available.

This [4

[bis[4-

(dimethylamino)phenyl] methylene]-2,5cyclohexadien-1ylidene]-N-methyl-,

chloride (1:1)

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility

in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 3316 UN Proper Shipping Name: Chemical kits

Transport Hazard Class(es)

Class: 9
Label(s): 9
Packing Group: III
Marine Pollutant: No

Special precautions for user: Not regulated.

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IMDG

UN Number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9 Subsidiary risk: 9

EmS No.: F-A, S-P

Packing Group: III

Environmental Hazards

Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN Number: UN 3316
Proper Shipping Name: Chemical kit

Transport Hazard Class(es):

Class: 9
Subsidiary risk: 9MI
Packing Group: III

Environmental Hazards

Marine pollutant: No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amendedNone present or none present in regulated quantities.

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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D001 METHANOL RCRA HAZARDOUS WASTE NO. D001 PHENOL

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Carcinogenicity, Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<u>Chemical Identity</u> <u>% by weight</u> 2-Propanol 1.0%

Methanol 1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity

Phenol

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Ethanol which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

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This product can expose you to chemicals including, Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1) which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, Methanol which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

2-Propanol Methanol Ethanol Phenol

US. Massachusetts RTK - Substance List

Chemical Identity

2-Propanol Methanol Ethanol Phenol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanol Methanol Ethanol

US. Rhode Island RTK

Chemical Identity

2-Propanol Methanol Ethanol

16.Other information, including date of preparation or last revision

Issue Date: 03/18/2021

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Version #: 2.1

Revision Information:

Further Information: No data available.

Disclaimer: Disclaimer:

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