

Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name CHEMGUARD C361

1. Identification

1.1. Product Identifier

Product name CHEMGUARD C361

1.2. Other means of identification

Product code C361BD275
Synonyms None
Chemical Family Fire fighting foam, surfactant

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent
Uses advised against None known

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Chemguard, Inc
204 South 6th Ave
Mansfield, TX 76063
Telephone: 817-473-9964
www.chemguard.com

Contact point Product Stewardship at 1-715-735-7411
E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 800-424-9300 or 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation - Category 1

FLAMMABLE LIQUIDS

- Category 4

2.2. Label Elements

Signal Word

DANGER

hazard statements

Causes serious eye damage
combustible liquid



Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container to an approved waste disposal plant.

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. OTHER INFORMATION

Unknown Acute Toxicity 4.15578001% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients**3.1. Mixture**

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No	weight-%
1-(2-Butoxy-1-methylethoxy)propan-2-ol	29911-28-2	5 - 10
Sodium Octyl Sulfate	142-31-4	1 - 5

4. First aid measures**4.1. Description of first aid measures**

General Advice	Keep victim under observation. Move victim to a safe isolated area. Move victim to fresh air. Remove contaminated clothing and shoes.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.)
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control Parameters**Exposure guidelines***Immediately Dangerous to Life or Health***8.2. Appropriate Engineering Controls**

Engineering controls	Showers Eyewash stations Ventilation systems.
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8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Ventilation	Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Physical State	Liquid	Color	Opaque
Odor	Slight solvent		
odor threshold	No data available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH	7.0 - 8.5	
Melting point/freezing point	-1 °C / 30 °F	
Boiling point / boiling range	> 100 °C / 212 °F	
Flash Point	> 93 °C / > 200 °F	
Evaporation Rate	No data available	
flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific gravity	1.00 - 1.25	
Water Solubility	Completely soluble	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic viscosity	No data available	

10. Stability and Reactivity**10.1. Chemical Stability**

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information**11.1. Information on Likely Routes of Exposure**

Product information no data available

INHALATION no data available.

Eye Contact no data available.

Skin contact no data available.

INGESTION no data available.

Acute Toxicity

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2	= 1620 µL/kg (Rat)	= 5860 µL/kg (Rabbit)	= 42.1 ppm (Rat) 4 h
Sodium Octyl Sulfate 142-31-4	= 3200 mg/kg (Rat)	-	-

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation Mild Irritant (rabbit)

Serious eye damage/eye irritation Mild Irritant (rabbit)

sensitization	No information available.
Germ Cell Mutagenicity	No information available
carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

12. Ecological Information

12.1. ecotoxicity

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2	-	LC50 96 h = 841 mg/L <i>Poecilia reticulata</i> static	-
2-Methyl-2,4-pentanediol 107-41-5	-	LC50 96 h 10500 - 11000 mg/L <i>Pimephales promelas</i> flow-through LC50 96 h = 10000 mg/L <i>Lepomis macrochirus</i> static LC50 96 h = 8690 mg/L <i>Pimephales promelas</i> flow-through LC50 96 h = 10700 mg/L <i>Pimephales promelas</i> static	EC50 48 h 2700 - 3700 mg/L <i>Daphnia magna</i>
Sodium chloride 7647-14-5	-	LC50 96 h 5560 - 6080 mg/L <i>Lepomis macrochirus</i> flow-through LC50 96 h = 12946 mg/L <i>Lepomis macrochirus</i> static LC50 96 h 6020 - 7070 mg/L <i>Pimephales promelas</i> static LC50 96 h = 7050 mg/L <i>Pimephales promelas</i> semi-static LC50 96 h 6420 - 6700 mg/L <i>Pimephales promelas</i> static LC50 96 h 4747 - 7824 mg/L <i>Oncorhynchus mykiss</i> flow-through	EC50 48 h = 1000 mg/L <i>Daphnia magna</i> EC50 48 h 340.7 - 469.2 mg/L <i>Daphnia magna</i> Static
Potassium chloride 7447-40-7	EC50 72 h = 2500 mg/L <i>Desmodesmus subspicatus</i>	LC50 96 h 750 - 1020 mg/L <i>Pimephales promelas</i> static LC50 96 h = 1060 mg/L <i>Lepomis macrochirus</i> static	EC50 48 h = 825 mg/L <i>Daphnia magna</i> EC50 48 h = 83 mg/L <i>Daphnia magna</i> Static
t-Butanol 75-65-0	EC50 72 h > 1000 mg/L <i>Desmodesmus subspicatus</i>	LC50 96 h 6130 - 6700 mg/L <i>Pimephales promelas</i> flow-through	EC50 48 h = 933 mg/L <i>Daphnia magna</i> EC50 48 h 4607 - 6577 mg/L <i>Daphnia magna</i> Static
Polyethylene Glycol 25322-68-3	-	LC50 24 h > 5000 mg/L <i>Carassius auratus</i>	-
n-Butanol 71-36-3	EC50 72 h > 500 mg/L <i>Desmodesmus subspicatus</i> EC50 96 h > 500 mg/L <i>Desmodesmus subspicatus</i>	LC50 96 h = 1910000 µg/L <i>Pimephales promelas</i> static LC50 96 h 100000 - 500000 µg/L <i>Lepomis macrochirus</i> static LC50 96 h = 1740 mg/L <i>Pimephales promelas</i> flow-through LC50 96 h 1730 - 1910 mg/L <i>Pimephales promelas</i> static	EC50 48 h = 1983 mg/L <i>Daphnia magna</i> EC50 48 h 1897 - 2072 mg/L <i>Daphnia magna</i> Static
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	EC50 72 h 0.11 - 0.16 mg/L <i>Pseudokirchneriella subcapitata</i> static EC50 96 h 0.03 - 0.13 mg/L <i>Pseudokirchneriella subcapitata</i> static EC50 120 h = 0.31 mg/L <i>Anabaena flos-aquae</i>	LC50 96 h = 1.6 mg/L <i>Oncorhynchus mykiss</i> semi-static	EC50 48 h = 4.71 mg/L <i>Daphnia magna</i> EC50 48 h 0.12 - 0.3 mg/L <i>Daphnia magna</i> Flow through EC50 48 h 0.71 - 0.99 mg/L <i>Daphnia magna</i> Static

12.2. Persistence and Degradability

Chemical Oxygen Demand:	254,000 mg/l
Biological Oxygen Demand (5 Day)	166,000 mg/l
Biodegradability (B.O.D./C.O.D.)	65 %
Total Organic Carbon	8300 mg/l

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations**13.1. Waste Treatment Methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not reuse container.

14. Transport Information

DOT	NOT REGULATED
TDG	NOT REGULATED
MEX	NOT REGULATED
ICAO (air)	NOT REGULATED
IATA	NOT REGULATED
IMDG	NOT REGULATED

15. Regulatory Information**15.1. International Inventories**

TSCA	Complies
DSL/NDSL	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic health hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

15.3. US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
n-Butanol 71-36-3	X	X	X
Magnesium Nitrate 10377-60-3	X	X	X

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

NFPA	Health Hazards 1	flammability 0	Instability 0	Physical and chemical properties -
HMIS	Health Hazards 1	flammability 0	Physical Hazards 0	Personal Protection X

Revision date 25-May-2015

Revision note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet