

Safety Data Sheet

Revision Date: 06/05/19 www.restek.com

31615 / GC/MS Tuning Mixture

800-424-9300 (CHEMTREC)

703-527-3887 (Outside the ÚS)

Restek Corporation

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For Laboratory use only

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2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name: Company: Address:

Phone#: Fax#: Emergency#:

Email: **Revision Number:** Intended use:

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:	Carcinogenicity Category 1A
GHS Signal Word: GHS Hazard: GHS	Danger May cause cancer.
Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid	IF exposed or concerned: Get medical advice/attention.
Measures: Storage:	Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.
Repeated Exposure	Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure. (No information to prove exclusion of certain routes of exposure)

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Dichloromethane	75-09-2	200-838-9	99.6
4,4'-DDT	50-29-3	200-024-3	0.1
DFTPP	5074-71-5	225-780-1	0.1

Target Organs:

benzidine	92-87-5	202-199-1	0.1
pentachlorophenol	87-86-5	201-778-6	0.1

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. Serious harm (damage) may result if treatment is delayed. Continue to flush eyes while awaiting medical attention
Skin Contact:	Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS. Never give anything by mouth to an unconscious person

5. FIRE- FIGHTING MEASURES

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Extinguishing Media: Fire and/or Explosion Hazards: Fire Fighting Methods and Protection: Hazardous Combustion Products:	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid. Use methods suitable to fight surrounding fire. No data. Use methods for the surrounding fire. Carbon dioxide, Carbon monoxide
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions and Equipment: Methods for Clean-up:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Prevent the spread of any spill to minimize harm to human health and the
	environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

n a well ventilated area. As
hygiene practices should be rial. rom incompatible materials. n use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Dichloromethane	75-09-2	2300 ppm IDLH	None Known	50 ppm TWA	25 ppm TWA; 125 ppm STEL (15 min. TWA)
4,4'-DDT	50-29-3	500 mg/m3 IDLH	None Known	1 mg/m3 TWA	1 mg/m3 TWA (listed under Dichlorodiphenyltric hloroethane)
benzidine	92-87-5	Not	None Known	Not established	No data available

established

Personal Protection:	
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Medical Conditions Aggravated By Exposure:	Eye disease Skin disease including eczema and sensitization Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance, color:	Colorless
Odor:	Strong
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	2.93 (air = 1)
Boiling Point (°C):	260 °C 401 °C at 1013.25 hPa
Melting Point (°C):	-96.7 °C
Flash Point (°F):	No data available
Upper Flammable/Explosive Limit, % in air:	No data available
Lower Flammable/Explosive Limit, % in air:	No data available
Autoignition Temperature (°C):	556 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	1.3254 - 1.3258 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	ND
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.6
Molecular Weight:	No data available

10. STABILITY AND REACTIVITY

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Stability.
Conditions to Avoid:
Materials to Avoid / Chemical Incompatiability:
Hazardous Decomposition Products:

Stable under normal conditions. None known.Contamination High temperatures Strong oxidizing agents Caustics (bases) Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation Absorption Ingestion Skin contact Eye
	contact
Target Organs Potentially Affected By Exposure:	Skin, Cardiovascular System, Eyes, Liver
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Inhalation may cause severe central nervous system depression (including unconsciousness).
Skin Contact:	Contact causes severe skin irritation and possible burns.
Skin Absorption:	Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eye Contact:	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye

Ingestion Irritation:	tissue. Temporary vision impairment (cloudy or blurred vision) is possible. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.				
	Harmful if swallowed. May cause systemic poisoning.				
Long-Term (Chronic) Hea	Ith Effects:				
Carcinogenicity: Reproductive and Develo	pmental Toxicity:	Contains a probable or known human carcinogen. Contains a known human reproductive and/or			
Inhalation:		developmental hazard. Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue,			
Skin Absorption:		nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs) Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage			
Component Toxicological NIOSH:	Data:				
	CACNE				
Chemical Name	CAS No.	LD50/LC50			
DDT	50-29-3	Dermal LD50 Rabbit 300 - 2820 mg/kg			
Benzidine	92-87-5	Oral LD50 Rat 309 mg/kg			
Methane, dichloro-	75-09-2	Inhalation LC50 Rat 53 mg/L 6 h			
Component Carcinogenic	Data:	U U			
OSHA:					
Chemical Name	CAS No.				
DDT	50-29-3	Present			
Benzidine	92-87-5	Present			
Methylene chloride	75-09-2	25 ppm TWA (8 hr.); 125 ppm STEL (15 min.);			
	10 00 2	12.5 ppm Action Level (see 29 CFR 1910.1051); effective date for respiratory protection for certain employers to acheive the 8-hour TWA PEL is August 31, 1998; the start up date to install engineering controls is December 10, 1998.; {OSHA - 29 CFR 1910 Specifically Regulate			
4000					
ACGIH:					
Chemical Name	CAS No.				
DDT	50-29-3	A3 - Confirmed Animal Carcinogen with			
		Unknown Relevance to Humans			
Benzidine	92-87-5	A1 - Confirmed Human Carcinogen			
Dichloromethane	75-09-2	A3 - Confirmed Animal Carcinogen with			
Dichloromethane	75-09-2	Unknown Relevance to Humans			
		Unknown Relevance to Humans			
NIOSH:	0 • 0 • 1				
Chemical Name	CAS No.				
DDT	50-29-3	potential occupational carcinogen			
Benzidine	92-87-5	potential occupational carcinogen			
Methylene chloride	75-09-2	potential occupational carcinogen			
,					
NTP:					
Chemical Name	CAS No.				
Benzidine	92-87-5	Known Human Carcinogen (listed under			
Denzidirie	92-07-5	Benzidine and dyes metabolized to benzidine)			
		Denziume and uyes metabolized to benziume)			
IARC:					
-					
Chemical Name	CAS No.	Group No.			
Monograph 100F [2012];	92-87-5	Group 1			
Monograph 99 [2010];	-	'			
	ograph				
Supplement 7 [1987]; Mon	ograph				
29 [1982]					
Monograph 117 [in prepara	ation]; 87-86-5	Group 1			
Monograph 71 [1999] (liste		'			
under Polychlorophenols a					

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their sodium salts combined exposure); Monograph 53 [1991] Monograph 113 [in preparation]; 50-29-3 Monograph 53 [1991]; Supplement 7 [1987] Monograph 110 [in preparation]; 75-09-2 Monograph 71 [1999]

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways.
Mahiliku	
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available
13. DISPOSAL CONSIDERATIONS	

Group 2A

Group 2A

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Incinerate spent or discarded material a permitted hazardous waste facility.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States: DOT Proper Shipping Name: UN Number: Hazard Class: Packing Group:	Dichloromethane UN1593 6.1 III
International: IATA Proper Shipping Name: UN Number: Hazard Class: Packing Group:	Dichloromethane UN1593 6.1 III

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States: Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA	
Dichloromethane	75-09-2	Х	Х	-	Х	
4,4'-DDT	50-29-3	Х	-	-	Х	
benzidine	92-87-5	Х	Х	-	Х	

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
DDT	50-29-3	Prop 65 Cancer
Benzidine	92-87-5	Prop 65 Cancer
Pentachlorophenol	87-86-5	Prop 65 Cancer
Dichloromethane	75-09-2	Prop 65 Cancer
Dichloromethane (Methylene chloride)		
p,p"-DDT	50-29-3	Prop 65 Devolop Tox
p,p"-DDT	50-29-3	Prop 65 Rep Female
p,p"-DDT	50-29-3	Prop 65 Rep Male

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State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Dichloromethane	75-09-2	Х	Х	Х	Х
4,4'-DDT	50-29-3	Х	Х	Х	Х
DFTPP	5074-71-5	-	-	-	-
benzidine	92-87-5	Х	Х	Х	Х
pentachlorophenol	87-86-5	Х	Х	Х	Х

16. OTHER INFORMATION

Prior Version Date: Other Information:	04/05/18 Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.