

Safety Data Sheet Revision Date: 09/13/13

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### 1. IDENTIFICATION

Catalog Number / Product Name:

31615, 31615-5XX, & 31715 / GC/MS Tuning Mixture

Company:

Restek Corporation 110 Benner Circle

Address:

Bellefonte, Pa. 16823

Phone#: Fax#:

814-353-1300

Fax#:

814-353-1309

Emergency#:

800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)

703

Revision Number: Intended use:

6

For Laboratory use only

### 2. HAZARD(S)IDENTIFICATION

**Emergency Overview:** 

**GHS Hazard Symbols:** 

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**GHS Classification:** 

Carcinogenicity Category 2

**GHS Signal Word:** 

Danger

**GHS Hazard:** 

Suspected of causing cancer.

**GHS Precautions:** 

**Safety Precautions:** 

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

**First Aid Measures:** 

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs:

No data available.

Repeated Exposure Target Organs:

No data available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINEC #	% Composition	
Dichloromethane	75-09-2	200-838-9	99.600000	
4,4'-DDT	50-29-3	200-024-3	0.100000	
DFTPP	5074-71-5		0.100000	
benzidine	92-87-5	202-199-1	0.100000	

pentachlorophenol 87-86-5 201-778-6 0.100000

### 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

**Extinguishing Media:** Use methods suitable to fight surrounding fire.

Fire Fighting Methods and Protection: **Hazardous Combustion Products:** 

Use methods for the surrounding fire. Carbon dioxide, Carbon monoxide

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: 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.

Methods for Clean-up: 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

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:					
Chemical Name Dichloromethane	<b>CAS No.</b> 75-09-2	IDLH 2300 ppm IDLH	ACGIH STEL	ACGIH TLV-TWA 50 ppm TWA	OSHA Exposure Limit 25 ppm TWA; 125 ppm
4,4'-DDT	50-29-3	500 mg/m3 IDLH		1 mg/m3 TWA	STEL (15 min. TWA) 1 mg/m3 TWA
DFTPP benzidine pentachlorophenol	5074-71-5 92-87-5 87-86-5	ND ND ND		No TLV No TLV 0.5 mg/m3 TWA	No data available. No data available.

Personal Protection:

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required

0.5 mg/m3 TWA

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.

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

**Eye Protection:** 

0.5 mg/m3 TWA

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

Appearance, color:

Colorless Odor: Strong

**Physical State:** 

No data available. pH: No data available **Vapor Density:** 2.93 (air = 1)

**Melting Point:** 

-96.7 ℃ Flash Point: No data available. Upper Flammable/Explosive Limit, % in air: No data available. Lower Flammable/Explosive Limit, % in air: No data available. 556 deg C

**Autoignition Temperature:** 

**Decomposition Temperature:** No data available.

Specific Gravity: **Evaporation Rate:**  1.3254 - 1.3258 g/cm3 at 20 ℃ No data available.

Odor Threshold:

ND

Solubility: Partition Coefficient: n-octanol in water: Moderate: 50-99% No data available.

VOC % by weight:

0.00

Molecular Weight:

No data available.

### 10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to Avoid:

No data available. Contamination High temperatures

Materials to Avoid / Chemical Incompatiability:

Strong oxidizing agents Caustics (bases)

**Hazardous Decomposition Products:** 

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 tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Ingestion Irritation:

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort,

nausea, vomiting and diarrhea.

Ingestion Toxicity:

Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:

Inhalation:

Contains a probable or known human carcinogen. Contains a known human reproductive and/or

Reproductive and Developmental Toxicity:

developmental hazard. Upon prolonged and/or repeated exposure, can cause

moderate respiratory irritation, dizziness, weakness, fatique, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see

"Target Organs)

Skin Absorption:

Upon prolonged or repeated exposure, harmful if

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### absorbed through the skin. May cause severe irritation and systemic damage

Component Toxicological Data:

NIOSH:

**Chemical Name** CAS No. LD50/LC50

Methane, dichloro-75-09-2 Oral LD50 Rat >2000 mg/kg

Component Carcinogenic Data:

OSHA:

**Chemical Name** CAS No.

Methylene chloride 25 ppm TWA (8 hr.); 125 ppm STEL (15 75-09-2

min.); 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

4,4"-50-29-3 Present

Dichlorodiphenyltrichloroethane

Benzidine Present 92-87-5

ACGIH:

**Chemical Name** CAS No. A3 - Confirmed Animal Carcinogen with Dichloromethane 75-09-2 Unknown Relevance to Humans

DDT 50-29-3 A3 - Confirmed Animal Carcinogen with

Unknown Relevance to Humans

Benzidine 92-87-5 A1 - Confirmed Human Carcinogen

NIOSH:

**Chemical Name** CAS No. Methylene chloride 75-09-2 potential occupational carcinogen DDT 50-29-3 potential occupational carcinogen Benzidine potential occupational carcinogen 92-87-5

NTP:

**Chemical Name** CAS No.

Benzidine Known Human Carcinogen (listed 92-87-5

under Benzidine and Dyes Metabolized to Benzidine)

IARC:

**Chemical Name** CAS No. Group No. Benzidine 92-87-5 Group 1 No data. Group 2A Dichloromethane 75-09-2 Group 2B 50-29-3 Group 2B Pentachlorophenol 87-86-5 Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife. Keep out of waterways.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data

**Ecological Toxicity Data:** No data available.

13. DISPOSAL CONSIDERATIONS

**Waste Description of Spent Product:** Spent or discarded material is a hazardous waste. **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:** 

Dichloromethane

UN Number:

UN1593

Hazard Class: Packing Group:

6.1 III

International:

IATA Proper Shipping Name:

UN Number:

Dichloromethane UN1593

Hazard Class: Packing Group:

6.1 III

Marine Pollutant:

No

#### 15. REGULATORY INFORMATION

United States:					7.00
Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Dichloromethane	75-09-2	X	X	-	X
4,4'-DDT	50-29-3	X	_ 121	0.00	x
DFTPP	5074-71-5	-	-	-	-
benzidine	92-87-5	X	X	_	X
pentachlorophenol	87-86-5	X	X	-	X

The following chemicals are listed on CA Prop 65:

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Chemical Name	CAS#	Regulation
Dichloromethane	75-09-2	Prop 65 Cancer
Dichloromethane (Methylene chloride)		
DDT	50-29-3	Prop 65 Cancer
Benzidine	92-87-5	Prop 65 Cancer
Pentachlorophenol	87-86-5	Prop 65 Cancer
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

State Right To Know Listing:

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

### 16. OTHER INFORMATION

**Prior Version Date:** 

09/15/10

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