

Safety Data Sheet Revision Date: 04/05/18

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

1. IDENTIFICATION

Catalog Number / Product Name: 31615 / GC/MS Tuning Mixture

Company:

Address:

110 Benner Circle
Bellefonte, Pa. 16823

Phone#:

814-353-1300

 Phone#:
 814-353-1300

 Fax#:
 814-353-1309

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

Email: www.restek.com

Revision Number: 10

Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:



GHS Hazard Symbols:

GHS Carcinogenicity Category 1A

Classification:

GHS Signal Danger

Word:

GHS Hazard: May cause cancer.

GHS

Precautions:

Safety Obtain special instructions before use.

Precautions: 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 Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.

Exposure Target Organs:

Repeated Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through

Exposure prolonged or repeated exposure. (No information to prove exclusion of certain routes of exposure)

Target Organs:

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

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

Extinguishing Media: 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.

Fire and/or Explosion Hazards: No data.

Fire Fighting Methods and Protection: Use methods for the surrounding fire. **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. As with all chemicals, good industrial hygiene practices should be

followed when handling this material.

Storage Technical Measures and Conditions: Store in a cool dry place. Isolate from incompatible materials.

Keep container closed when not in 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

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):

Upper Flammable/Explosive Limit, % in air:

Lower Flammable/Explosive Limit, % in air:

Autoignition Temperature (°C):

Decomposition Temperature (°C):

No data available

556 deg 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: 0

Molecular Weight: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid:

Materials to Avoid / Chemical Incompatiability:
Hazardous Decomposition Products:

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

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: Contains a probable or known human carcinogen. Reproductive and Developmental Toxicity:

Contains a known human reproductive and/or

developmental hazard.

Inhalation: 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)

Upon prolonged or repeated exposure, harmful if Skin Absorption:

absorbed through the skin. May cause severe irritation

and systemic damage

Component Toxicological Data:

NIOSH:

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:

OSHA:

Chemical Name CAS No.

DDT 50-29-3 Present Benzidine 92-87-5 Present

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

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

ACGIH:

Chemical Name CAS No. DDT 50-29-3 A3 - Confirmed Animal Carcinogen with

Unknown Relevance to Humans 92-87-5 A1 - Confirmed Human Carcinogen Benzidine Dichloromethane 75-09-2 A3 - Confirmed Animal Carcinogen with

Unknown Relevance to Humans

NIOSH:

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 Benzidine and dyes metabolized to benzidine)

IARC:

Chemical Name CAS No. Group No. Monograph 100F [2012]; Group 1 92-87-5

Monograph 99 [2010]:

Supplement 7 [1987]; Monograph

29 [1982]

Monograph 117 [in preparation]; 87-86-5 Group 1

Monograph 71 [1999] (listed under Polychlorophenols and their sodium salts combined

exposure); Monograph 53 [1991]

Monograph 113 [in preparation]; 50-29-3 Group 2A

Monograph 53 [1991];

Supplement 7 [1987]

Monograph 110 [in preparation]; 75-09-2 Group 2A

Monograph 71 [1999]

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

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

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: Dichloromethane

UN Number: UN1593 **Hazard Class:** 6.1 **Packing Group:** Ш

International:

IATA Proper Shipping Name: Dichloromethane

UN Number: UN1593 **Hazard Class:** 6.1 **Packing Group:** Ш

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	Χ	Χ	-	Χ
4,4'-DDT	50-29-3	Χ	-	-	X
benzidine	92-87-5	X	X	_	X

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

State Right To Know Listing:

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

16. OTHER INFORMATION

Prior Version Date: 07/06/17

Other Information: 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

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