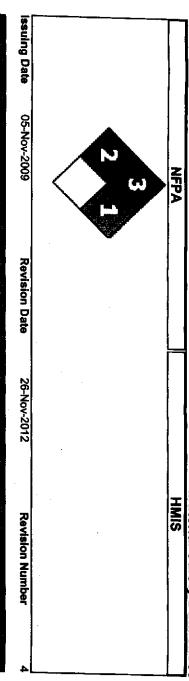
## multi-ch

INDUSTRY PROVEN... VALUES DRIVEN

**Material Safety Data Sheet** 



**Product Name** MC MX 5-1625

**Product Code** MC MX 5-1625

1993

CN-No

Recommended Use Paraffin/Asphaltene Solvent.

Multi-Chem Group LLC 2905 Southwest Blvd San Angelo, TX 76904 Phone: 1 325 223 6200

Manufactured by:

Emergency Telephone Number

1 800 535 5053 +1 352 323 3500 (Outside United States) 613 996 6666 or \*666 on a cell phone (Inside Canada Only)

## **Emergency Overview**

Flammable Liquid Irritating to eyes, respiratory system and skin May cause burns of eyes, skin and mucous membranes

Harmful by inhalation, in contact with skin and if swallowed Contains a known or suspected reproductive toxin

Physical State Liquid

Odor

Organic

Clear to Slightly
Hazy, Light Amber to
Dark Amber

Appearance

Potential Health Effects
Principle Routes of Exposure

Eye contact, Skin contact, Inhalation, Ingestion.

**Acute Toxicity** 

Chronic Effects Ingestion Eyes Skin Inhalation reproductive hazard. Prolonged exposure may cause chronic effects. Contains a known or suspected gastrointestinal irritation, nausea, vomiting and diarrhea. May cause additional affects as listed under "Inhalation". Harmful if swallowed. Potential for aspiration if swallowed. Ingestion may cause Exposure to mists may cause severe imitation or burns to the upper respiratory tract. May incoordination cause central nervous system depression with nausea, headache, dizziness, vomiting, and Inhalation of vapors in high concentration may cause irritation of respiratory system. dermatitis. irritating to skin. May cause burns. Prolonged skin contact may defat the skin and produce Irritating to eyes. Risk of serious damage to eyes.

Environmental Hazard Aggravated Medical Conditions See Section 12 for additional Ecological Information Skin disorders. Preexisting eye disorders. Neurological disorders. Respiratory disorders. Liver disorders. Kidney disorders. Blood disorders.

# Formula

Cyclopentane	Benzenesulfonic acid, C10-16-alkyl derivatives	Methylcyclopentane	Hexanes	Toluene	Chemical Name
	68584-22-5		110-54-3	108-88-3	CAS-No
1-5	1-5	5-10	30-60	30-60	Weight %

General Advice Get medical attention immediately if symptoms occur.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact shoes. Seek immediate medical attention/advice. Wash off immediately with soap and plenty of water removing all contaminated clothes and

Inhalation respiration. Seek immediate medical attention/advice Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth. Get medical attention.

Notes to Physician If ingested, material may be aspirated into the lungs and cause chemical pneumonitis

Flammable Properties Fłammable liquid 

Suitable Extinguishing Media Water spray. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>). Liquid may float on top of water and re-ignite.

°C / 59 °F

Do not use a solid water stream as it may scatter and spread fire.

Unsuitable Extinguishing Media

Flash Point

**Hazardous Combustion Products** 

Explosion Data Sensitivity to Static Discharge Sensitivity to Mechanical Impact

> Carbon oxides, Sulfur oxides, Sulfuric acid.

Not sensitive.

May be ignited by heat, sparks or flames

**Specific Hazards Arising from the Chemical**Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back.

## Protective Equipment and Precautions for Firefighters

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

NFPA

Health Hazard N

Flammability

w

Stability

\_

Physical and Chemical Hazards

Personal Precautions

Only trained and properly protected personnel must be involved in clean-up operations. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static

discharges.

Methods for Containment

**Methods for Cleaning Up** 

Dike far ahead of liquid spill for later disposal

Ground and bond containers when transferring material. Use clean non-sparking tools to Soak up with inert absorbent material. Pick up and transfer to properly labeled containers

collect absorbed material.

Handling

sources of ignition. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all

Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

### Exposure Guidelines

Г	T	<u> </u>		г-
Chemical Name	Cyclopentane 287-92-3	Hexanes 110-54-3	Toluene 108-88-3	Chemical Name
Alberta	TWA: 600 ppm	TWA: 50 ppm	TWA: 20 ppm	ACGIH TLV
British Columbia	(vacated) TWA: 1720 mg/m³ (vacated) TWA: 600 ppm	TWA: 1800 mg/m³ TWA: 500 ppm (vacated) TWA: 180 mg/m³ (vacated) TWA: 50 ppm	TWA: 200 ppm	OSHA PEL
Saskatchewan	TWA: 1720 mg/m³ TWA: 600 ppm	IDLH: 1100 ppm TWA: 180 mg/m³ TWA: 50 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³	NIOSH IDLH

	Ensure artegrate ventilation penecially in confined press	Focuse arigonista ventilatio	
STEL: 900 ppm STEL: 2580 mg/m³			
TWA: 600 ppm TWA: 1720 mg/m <sup>3</sup>	TWA: 600 ppm	TWA: 1720 mg/m³ TWA: 600 ppm	Cyclopentane 287-92-3
STEL: 62.5 ppm			
STEL: 220 mg/m <sup>3</sup>		•	
TWA: 50 ppm		TWA: 176 mg/m <sup>3</sup>	110-54-3
TWA: 178 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 50 ppm	Hexanes
STEL: 60 ppm		TWA: 188 mg/m <sup>3</sup>	108-88-3
TWA: 50 ppm	TWA: 20 ppm	TWA: 50 ppm	oluene

Ensure adequate ventilation, especially in contined areas

## Personal Protective Equipment Eye/Face Protection

Respiratory Protection Skin and Body Protection

Wear protective gloves/clothing. Safety glasses with side-shields. If splashes are likely to occur, wear.. Goggles. Face-shield.

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.

Hygiene Measures Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the produto.

Specific Gravity Evaporation Rate Vapor Density	Boiling Point/Range	Appearance Physical State
No data available 0.7465-0.7715 No data available No data available	No data available	Clear to Slightly Hazy Light Amber to Dark Amber Liquid
Solubility Vapor Pressure Density	Autoignition Temperature Pour Point Flammability Limits in Air	Odor
Oil soluble No data available 6.22-6.43 lbs/gal	No data available  40 °C / 40 °F  No data available	Organic No data available

Stability

Stable under recommended storage conditions

Incompatible Products

Strong oxidizing agents. Strong bases

Conditions to Avoid

Heat, flames and sparks

Hazardous Decomposition Products Carbon oxides. Sulfur oxides. Sulfuric acid.

Hazardous Polymerization None under normal processing

### Acute Toxicity

Product Information

The product itself has not been tested

Irritation

Irritating to eyes, respiratory system and skin. May cause burns.

Component Information

636 mg/kg (Rat) 12124 mg/kg (Rat) 1 28710 mg/kg (Rat) 3000 mg/kg (Rabbit) 26 530 mg/kg (Rat) 530 mg/kg (Rabbit) 48	Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
28710 mg/kg (Rat) 3000 mg/kg (Rabbit) 530 mg/kg (Rat) 530 mg/kg (Rat)	Toluene	636 mg/kg (Rat)	12124 mg/kg (Rat) 8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h 26700 ppm (Rat) 1 h
vi 530 ma/ka (Bat)	Hexanes	28710 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
And inging (cons)		530 mg/kg (Rat)	530 mg/kg (Rat)	

**Chronic Toxicity** 

**Chronic Toxicity** 

Prolonged exposure may cause chronic effects. Contains a known or suspected reproductive hazard.

Reproductive Toxicity

Contains a known or suspected reproductive toxin.

Teratogenic Effects

Possible risk of harm to the unborn child

Target Organ Effects

Eyes, Skin, Respiratory system, Central nervous system (CNS), Liver, Kidney, Blood.

Ecotoxicity

The environmental impact of this product has not been fully investigated.

c	Benzenesulfonic a		Ch	Cyclopentane	Benzenesulfonic acid, C10-16-alkyl derivatives				· _		Hexanes																	Ciderio	Tohlogo	Chemical Name
Cyclopentane	Benzenesulfonic acid, C10-16-alkyl derivatives	Toluene	Chemical Name																								(	EC50 > 433 mg/L 96 h	COE0 = 43 E == 73 F	Toxicity to Algae
	3				LC50= 3 mg/L Oncorhynchus mykiss 96 h	Oncorhynchus mykiss 96 h	LC50= 4.14 mg/L	macrochirus 96 h	LC50= 4.12 mg/L Lepomis	promelas 96 h	LC50= 2.5 mg/L Pimephales	latipes 96 h	LC50= 54 mg/L Oryzias	Oncorhynchus mykiss 96 h	LC50= 5.8 mg/L	reticulata 96 h	LC50= 28.2 mg/L Poecilia	Pimephales promelas 96 h	LC50= 12.6 mg/L	Poecilia reticulata 96 h	LC50 50.87-70.34 mg/L	Oncorthyrichus mykiss 96 h	LC50 5.89-7.81 mg/L	Pimenhales normalas Of h	LC50 15.22-19.05 ma/L	Oncorphynchus mykiss 96 h	1050 14 1-17 16 mg/l	Lepomis macrochirus 96 h	1 CEO 11 O 15 O mail	Toxicity to Fish
= 2.05	= 2 23 °C	= 2.65	Log Pow		EC50 = 5 mg/L 6 h									***														CCOO + 15.7 Hight ou him	ECED = 40.7 mm/ 30 m/s	Microtox
				EC50 = 10.5 mg/L 48 h	EC50 = 2.9 mg/L 48 h						EC50 = 3.87 mg/L 48 h																( )	EC50 = 310 mg/L 48 h	ECEO = 44.3 ma/l 48.5	Daphnia Magna (Water Flea)

Waste Disposal Method

Dispose of in accordance with local regulations.

## Contaminated Packaging

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste	
			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed processes.	
_			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	,

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Cyclopentaine	Hexanes	Toluene	Chemical Name
Toxic; ignitable	Toxic; Ignitable	Toxic; Ignitable	California Hazardous Waste Status

IATA UN-No Proper Shipping Name Packing Group ERG Code Hazard Class
UN-No Flammable Liquid N.O.S. (Contains Toluene and Hexanes) 1993 128 1993 Flammable Liquid N.O.S. (Contains Toluene and Hexanes)

Packing Group Proper Shipping Name Hazard Class

Proper Shipping Name Hazard Class UN-No ω Flammable Liquid N.O.S. (Contains Toluene and Hexanes)

Packing Group 1993

TDG
Proper Shipping Name Flammable Liquid N.O.S. (Contains Toluene)

ON-NO Hazard Class 1993 ယ

Packing Group

nternational Inventories
Component TSCA DSL EINECS/ELIN ENCS **IECSC** PICCS

Aics

Toluene	Present	×	×	3-2	×	KE-33936	×	×
108-88-3 (30-60)								
Hexanes	Present	X	×	2-6	×	KE-18626	×	×
110-54-3 (30-60)								
Methylcyclopentane	Present	×	×	-	×	KE-23724	×	×
96-37-7 (5-10)								
Benzenesulfonic acid	Present	×	×	•	×	KE-02595	×	×
C10-16-alkyl								
derivatives								
68584-22-5 ( 1-5 )								
Cyclopentane	Present	×	×	3-4166	×	KE-09297	×	×
287-92-3 (1-5)								

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

	Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
	Toluene	108-88-3	30-60	1.0
_	Hexanes	110-54-3	30-60	1.0
	CAPA 244 (247) Land Catalonia			

Acute Health Hazard Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard	Yes Yes Yes
Chronic Health Hazard Fire Hazard	Yes Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	<b>V</b>

### Clean Water Act Reactive Hazard

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable  Quantities	CWA - Toxic Pollutants CWA - Priority Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3 ( 30-60 )	1000 lb	×	×	×

Clean Air Act, Section 112 Hazardous Air Poltutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air

		Group V	Present	30-60	110-54-3	Hexanes
		Group I	Present	30-60	108-88-3	Toluene
Depletors	Depletors					
Class 2 Ozone	Class 1 Ozone	VOC Chemicals	HAPS data	₩eight %	CAS-No	Chemical Name

### CERCLA

	5000 lb	Hexanes
	1000 lb	Toluene
Extremely Hazardous Substances	Hazardous Substances RQs	Chemical Name

U.S. State Regulations
California Proposition 65
This product contains the following Proposition 65 chemicals:

Cyclopentane X	Methylcyclopentane X	Hexanes X	Toluene X	Chemical Name Massachusetts	Toluene	Chemical Name
×	×	×	×	s New Jersey		
×	×	×	×	Pennsylvania	108-88-3	CAS-No
		×	×	Illinois	Devek Female R	Californ
×	×	×	×	Rhode Island	Developmental Female Reproductive	California Prop. 65

## International Regulations Mexico - Grade

No information available

Hexanes	Toluene	Chemical Name
		Carcinogen Status
Mexico: TWA= 176 mg/m³ Mexico: TWA= 1760 mg/m³	Mexico: TWA 50 ppm Mexico: TWA 188 mg/m³	Exposure Limits

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### WHMIS Hazard Class

D2A Very toxic materials D2B Toxic materials B2 Flammable liquid

Toxic materials



Hexanes	Toluene	Chemical Name	
×	X	NPRI	

# 

Prepared By Amanda Burwell

**Issuing Date** 11/5/2009

Revision Date 26-Nov-2012

Reason for Revision (M)SDS sections updated. 1. 2. 3. 5. 9. 11. 14. 15. 16.

### Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**