

SAFETY DATA SHEET

Creation Date 19-Aug-2010

Revision Date 07-Nov-2014

Revision Number 1

1. Identification

Product Name

Cat No. :

AC217430000; AC217430010; AC217430050

Dichloromethane-d2

No information available

Laboratory chemicals.

Synonyms

Recommended Use

Uses advised against No Information available Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410 Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

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

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (C	NS).
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Blood.	

Label Elements

Signal Word Danger

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause cancer May cause respiratory irritation May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing **Skin**

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

Other hazards

WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Dichloro(2H2)methane	1665-00-5	100
Methylene chloride	75-09-2	0

4. First-aid measures		
General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on sk on clothing.		
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.		
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical atten		
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	
Most important symptoms/effects	Irritating to eyes. Irritating to skin.	

Notes to Physician	Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	556 °C / 1032.8 °F
Explosion Limits	
Upper	22 vol %
Lower	13 vol %
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the C	Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride gas Phosgene

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.

NFPA Health 2		Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental release measures			
Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Ensure adeq ventilation. Do not get in eyes, on skin, or on clothing.			safe areas. Ensure adequate	
Environmental Precautions Avoid release to the environment. See Section 12 for additional ecological informa			tional ecological information.	

Environmental Precautions

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage

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

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride	TWA: 50 ppm	(Vacated) TWA: 500 ppm (Vacated) STEL: 2000 ppm (Vacated) Ceiling: 1000 ppm TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methylene chloride	TWA: 50 ppm TWA: 174 mg/m³	TWA: 100 ppm TWA: 330 mg/m ³ STEL: 500 ppm STEL: 1740 mg/m ³	TWA: 50 ppm

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by
	OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. Physical and chemical properties

3	
Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-97 °C / -142.6 °F
Boiling Point/Range	40 °C / 104 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	22 vol %
Lower	13 vol %
Vapor Pressure	450 hPa @ 20 °C
/apor Density	No information available
Relative Density	1.360
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	556 °C / 1032.8 °F
Decomposition Temperature	120 °C
Viscosity	No information available
Molecular Formula	C Cl2 D2
Molecular Weight	86.95

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents, Strong acids, Amines
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Phosgene	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene chloride	1600 mg/kg (Rat)	Not listed	53 mg/L (Rat)6 h 76000 mg/m3(
			Rat) 4 h

Toxicologically Synergistic	No information available	•		
Products				
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u>)</u>	

Irritation	Irritating to eyes, respiratory system and skin	ı

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Dichloro(2H2)methane	1665-00-5	Not listed	Not listed	Not listed	Not listed	Not listed	
Methylene chloride	75-09-2	Group 2B	Reasonably Anticipated	A3	Х	A3	
IARC: (Internation NTP: (National To: ACGIH: (American Hygienists) Mexico - Occupati	xicity Program) n Conference of G	overnmental Industr	er) IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen ndustrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienis				
Mutagenic Effects		A5 - Not Suspected as a Human Carcinogen No information available					
Reproductive Effect	S	Experiments have shown reproductive toxicity effects on laboratory animals.					
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory syster Kidney Liver Blood		system (CNS)			
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	mptoms / effects,both acute and No information available layed						
Endocrine Disrupto	r Information	No information ava	ailable				
Other Adverse Effect	Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry RTECS for complete information.						

12. Ecological information

Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Dichloro(2H2)methane	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h

Persistence and Degradability No information available

Bioaccumulation/Accumulation

No information available.

Mobility

Component	log Pow
Methylene chloride	1.25

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

1	Component	RCRA - U Series Wastes	RCRA - P Series Wastes
	Methylene chloride - 75-09-2	U080	-

	14. Transport information				
DOT					
UN-No	UN1593				
Proper Shipping Name	DICHLOROMETHANE				
Hazard Class	6.1				
Packing Group	111				
TDG					
UN-No	UN1593				
Proper Shipping Name	DICHLOROMETHANE				
Hazard Class	6.1				
Packing Group	111				
UN-No	UN1593				
Proper Shipping Name	DICHLOROMETHANE				
Hazard Class	6.1				
Packing Group	III				
IMDG/IMO					
UN-No	UN1593				
Proper Shipping Name	DICHLOROMETHANE				
Hazard Class	6.1				
Packing Group					
	15. Regulatory information				

All of the components in the product are on the following Inventory lists: X = listed The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dichloro(2H2)methane	-	-	-	216-776-0	-		-	-	-	-	-
Methylene chloride	Х	Х	-	200-838-9	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	0	0.1
SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard	Yes Yes No No No		

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	-	-	Х	Х

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	Х		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL	-
	12.5 ppm Action Level	
	25 ppm TWA	

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb 1 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California P	California Prop. 65		o 65 NSRL	Category		
Methylene chloride	75-09-2			0 μg/day) μg/day	Carcinogen			
State Right-to-Know								
Component	Massachusetts	New Jersey	Penns	ylvania	Illinois	Rhode Island		
Dichloro(2H2)methane	-	-		-	-	Х		
Methylene chloride	Х	Х	>	X	Х	Х		

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

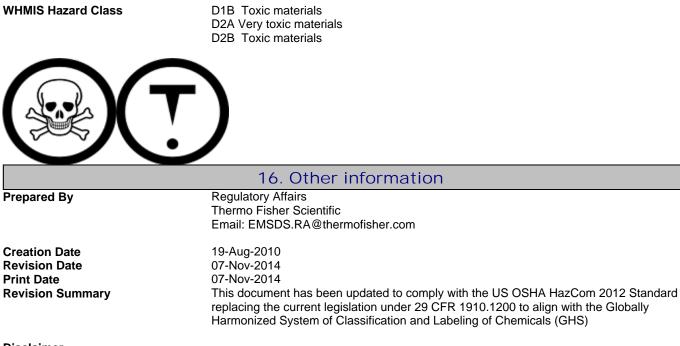
Other International Regulations

Mexico - Grade

No information available

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



Disclaimer The information provided on 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 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 SDS