

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) and Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Revision date 01-Jul-2024 Revision Number 1

1. Identification

Product identifier

Product Catalog Number:	Product Description:
40-4040-XX	3% Dichloroacetic acid in Dichloromethane

Product Code(s)
40-4040-XX
Product Name
Deblocking Mix

Other means of identification

UN number or ID number UN2922

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use For research use only

Restrictions on use This chemical/product is not and cannot be distributed in commerce (as defined in TSCA

section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating

removal.

Details of the supplier of the safety data sheet

Manufacturer Address

Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA

Emergency telephone number

Company Phone Number 1-703-437-6191

Emergency Telephone CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation

US: 1-800-424-9300 or Local: +1-703-527-3887

EMEA: +44 20 3885 0382 APAC: +65 3163 8374

Website www.glenresearch.com

E-mail address support@glenresearch.com

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

Appearance Clear Liquid Physical state Liquid Odor Sweet Mild

Label elements

Signal word

Danger

Hazard statements

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye damage May cause cancer



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves, protective clothing, eye protection and face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell Take off contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice and attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

Toxic to aquatic life.

3. Composition/information on ingredients

<u>Substance</u>

Chemical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review	date exemption

			Act registry number (HMIRA registry #)	granted (if applicable)
Dichloromethane	75-09-2	95-99	-	-
Dichloroacetic acid	79-43-6	1-5	-	-

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Hydrogen chloride. Carbon monoxide. Carbon dioxide (CO2).

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Take up mechanically, placing in appropriate

containers for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using

this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

Packaging materials Glass.

8. Exposure controls/personal protection

Control parameters Exposure Limits

Chemical name	ACGIH T	ΙV	0:	SHA PEL		NIOSH
Dichloromethane 75-09-2	TWA: 50 ppm		TWA: 25 ppm (vacated) TWA: 500 ppm (vacated) STEL: 2000 ppm 5 min in any 3 h (vacated) Ceiling: 1000 ppm STEL: 125 ppm see 29 CFR 1910.1052			IDLH: 2300 ppm
Dichloroacetic acid 79-43-6	TWA: 0.5 ppm Sk*			-		-
Chemical name	Alberta	British C	Columbia	Ontario	•	Quebec
Dichloromethane 75-09-2	TWA: 50 ppm TWA: 2 WA: 174 mg/m ³		25 ppm	TWA: 50 ppm	1	TWA: 50 ppm TWA: 174 mg/m ³
Dichloroacetic acid 79-43-6	TWA: 0.5 ppm WA: 2.6 mg/m ³).5 ppm k*	TWA: 0.5 ppn Sk*	n	-

Biological occupational exposure limits

Sk*

Adverse reproductive effect

Chemical name	ACGIH
Dichloromethane	0.3 mg/L - urine (Dichloromethane) - end of shift
75-09-2	

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Contact glove manufacturer for recommendations. Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Prevent product from entering drains. Local authorities should be advised if significant

spillages cannot be contained.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateLiquidAppearanceClear LiquidColorClearOdorSweet MildOdor threshold214 ppm

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pН No data available None known None known Melting point / freezing point No data available Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Relative vapor density No data available None known Relative density 1.327g/mL None known Slightly soluble Water solubility None known Solubility in other solvents No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive properties

Oxidizing properties

No information available

10. Stability and reactivity

Reactivity No information available

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoidNone known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Finely powdered metals.

Hazardous decomposition products Hydrogen chloride. Carbon oxides. Chlorine.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 1,621.00 mg/kg

 ATEmix (dermal)
 1,838.80 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

ATEmix (inhalation-dust/mist) 82.00 mg/l ATEmix (inhalation-vapor) 99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dichloromethane 75-09-2	= 1600 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 53 mg/L (Rat) 6 h
Dichloroacetic acid 79-43-6	= 2820 mg/kg (Rat)	= 510 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye

damage.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Dichloromethane 75-09-2	А3	Group 2A	Reasonably Anticipated	X
Dichloroacetic acid 79-43-6	А3	Group 2B	Reasonably Anticipated	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effectsNo information available.Aspiration hazardNo information available.

12. Ecological information

Ecotoxicity

Toxic to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Dichloromethane	EC50: >500mg/L (96h,	LC50: 140.8 - 277.8mg/L	-	EC50: 1532 - 1847mg/L
75-09-2	Pseudokirchneriella	(96h, Pimephales		(48h, Daphnia magna)
	subcapitata)	promelas)		EC50: =190mg/L (48h,
	EC50: >500mg/L (72h,	LC50: 262 - 855mg/L		Daphnia magna)
	Pseudokirchneriella	(96h, Pimephales		
	subcapitata)	promelas)		
		LC50: =193mg/L (96h,		
		Lepomis macrochirus)		

Persistence and degradability Not Likely.

Bioaccumulation Not likely to bioaccumulate.

Bioconcentration factor (BCF) log Pow <= 4

Component Information

Chemical name	Partition coefficient
Dichloromethane 75-09-2	1.25

Mobility in soil Not expected to adsorb on soil.

Mobility Soluble in water.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with products

environmental legislation.

Dispose of in accordance with federal, state and local regulations. Do not reuse empty Contaminated packaging

containers.

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

a hazardous waste.

14. Transport information

DOT Regulated UN2922 **UN** number or ID number

Corrosive liquids, n.o.s. Proper shipping name Transport hazard class(es) Class 8, (6.1) Packing group Packing Group III

1000 lbs

Reportable quantity - Ibs

IATA Regulated
UN number or ID number UN2922

UN proper shipping name
Transport hazard class(es)
Packing group

Corrosive liquid, n.o.s.
Class 8, (6.1)
Packing Group III

IMDG Regulated UN number or ID number UN2922

UN proper shipping name
Transport hazard class(es)
Packing group
EmS-No.

Corrosive liquid, n.o.s.
Class 8, (6.1)
Packing Group III
F-A, S-B

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA All of the components of this product are listed in the TSCA Inventory or exempt. This

chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating

removal.

This product contains a TSCA Section 6 restricted substance(s). Please see listed references to understand requirements and obligations under TSCA. Not all products containing restricted substances will necessarily be restricted.

Chemical name	CAS No.	References
Dichloromethane	75-09-2	See 40 CFR Part 751

DSL/NDSL

EINECS/ELINCS

Listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

US 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	SARA 313 - Threshold Values %	
Dichloromethane - 75-09-2	0.1	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dichloromethane 75-09-2	-	X	X	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Dichloromethane 75-09-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

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Chemical name	California Proposition 65	
Dichloromethane - 75-09-2	Carcinogen	
Dichloroacetic acid - 79-43-6	Carcinogen	
	Developmental	
	Male Reproductive	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dichloromethane 75-09-2	X	X	Х
Dichloroacetic acid 79-43-6	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Special hazards - Halls Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

Revision date 01-Jul-2024

Revision Note No information available

Disclaimer

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End of Safety Data Sheet