

SECTION 1

MATERIAL IDENTIFICATION

PRODUCT NAME / DESCRIPTION: CreteSolv RTU

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Oilfield Chemical
Uses advised against No information available

DISTRIBUTED / MANUFACTURED BY:

Rose Rock Products, LLC
11901 N. Morgan Rd.
Yukon, OK 73099

Date: 10/16/2025
Phone: (405) 883-1095
Emergency Phone: (405) 282-8510

SECTION 2

HAZARD IDENTIFICATION

CLASSIFICATION:

Acute Toxicity - Inhalation (Dusts/Mists): Category 4
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1

SIGNAL WORD:

Danger

HAZARD STATEMENTS:

H314 - Causes severe skin burns and eye damage
H332 - Harmful if inhaled
EUH071 - Corrosive to the respiratory tract



PRECAUTIONARY STATEMENTS

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician

SECTION 3**HEALTH HAZARDS**

CHEMICAL NAME	EC No	CAS No.	Weight %	Classification according to	REACH
				Regulation (EC) No. 1272/2008 [CLP]	Registration No.
2-Hydroxyacetic Acid	201-180-5	79-14-1	5-20	Skin Corr. 1B (H314)	01-2119485579-17-XXXX
				Eye Dam. 1 (H318)	
				Acute Tox. 4 (H332)	
Diethylene Glycol Monobutyl Ether	203-961-6	112-34-5	1-10	Eye Irrit. 2 (H319)	No data available

SECTION 4**FIRST AID****Medical conditions aggravated by exposure:**

Notes to physician: Treat symptomatically

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

Skin Contact: Wash off with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Ingestion: Call a physician or poison control center immediately. If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

SECTION 5**FIRE FIGHTING MEASURES****Suitable Extinguishing Media:**

Use CO₂, dry chemical, or foam

Extinguishing media which must not be used for safety reasons:

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

Special hazards arising from the substance or mixture:

Contact with metals may evolve flammable hydrogen gas

Advice for firefighters:

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

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, PPE, and Emergency Procedures: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. See section 12 for additional ecological information.

Containment Procedures: Dike to collect large liquid spills. Avoid release to the environment.

Clean-Up Procedures: Prevent further leakage or spillage if safe to do so. Neutralise with lime soda ash. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

SECTION 7

HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe vapors/dust.

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

SECTION 8

PERSONAL PROTECTION / EXPOSURE CONTROLS

Exposure Limits

CHEMICAL NAME	ACGIH TLV		OSHA PEL		NIOSH IDLH
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm inhalable fraction and vapor				-
CHEMICAL NAME	European Union	United Kingdom	France	Spain	Germany
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15ppm STEL: 101.2mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 67 mg/m ³ TWA: 10 ppm Ceiling / Peak: 15 ppm Ceiling / Peak: 100.5mg/m ³
COMPONENT	Italy	Portugal	Netherlands	Finland	Denmark
Diethylene glycol monobutyl ether 112-34-5 (1-10)	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	H* STEL: 100 mg/m ³ TWA: 50 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³
CHEMICAL NAME	Austria	Switzerland	Poland	Norway	Ireland
Diethylene glycol monobutyl ether 112-34-5	STEL 15 ppm STEL 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101 mg/m ³ TWA: 10 ppm TWA: 67 mg/m ³	TWA: 67 mg/m ³ STEL: 100 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 102 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

Personal Protection:

- Eye Protection** Safety glasses with side-shields. Goggles.
- Hand Protection** Impervious gloves. Nitrile rubber. Break through time. >480 mins thickness 0.11mm.
- Skin / Body Protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear rubber boots if needed to prevent skin contact with liquid material.
- Respiratory Protection** Do not breathe vapors, mist or gas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA/CEN approved respiratory protection should be worn. Keep substance free from Contamination.

Other Protective Equipment:	Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink, or smoke. Provide regular cleaning of equipment, work area, and clothing.
Environmental Exposure Controls:	Do not allow material to contaminate ground water system.

SECTION 9

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Colorless / Light Yellow
Odor:	Sweet
Odor Threshold:	No information available
pH:	2.25 - 2.75 @ 25°C
Boiling Point:	No data available
Melting Point:	No data available
Flash Point:	> 93.3 °C
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Flammability Limit in Air:	
Upper flammability or explosive limits:	No data available
Lower flammability or explosive limits:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative density	0.90 - 1.20
Solubility Water:	Miscible in water
Solubility in Other Solvents:	No data available
Partition Coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity:	No data available
Viscosity, Dynamic:	No data available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Other Information	
Softening Point:	No information available
Molecular Weight:	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk Density	No information available

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	No data available
Stability:	This product is stable under normal conditions Hazardous polymerization does not occur. Exposure to air or moisture over prolonged periods. Do not freeze.
Possibility of hazardous reactions:	Strong oxidizing agents. Cyanides. Alkali metals. Incompatible with strong acids and bases
Incompatibility:	Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Hydrogen sulfide. Sodium oxides. Aldehydes.
Hazardous Decomposition Products:	

SECTION 11**TOXICOLOGICAL PROPERTIES****Product Information Inhalation**

Irritating to mucous membranes. May cause irritation of respiratory tract

Eye contact

Avoid contact with eyes. Causes burns. May cause irreversible damage to eyes

Skin contact

May cause irritation. Contact causes severe skin irritation and possible burns. Prolonged skin contact causes burns.

Ingestion

Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Causes burns. May be fatal if swallowed. May cause adverse kidney effects.

CHEMICAL NAME	Oral LD50	Dermal LD50	Inhalation LC50
2-Hydroxyacetic acid	= 1950 mg/kg (Rat)		= 3.6 mg/L (Rat) 4 h > 5.2 mg/L (Rat) 4 H
Diethylene glycol monobutyl ether	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-

CARCINOGENICITY

Contains no ingredient listed as a carcinogen

SENSITIZATION

No information available

NEUROLOGICAL EFFECTS

No information available

TERATOGENICITY

No information available

TARGET ORGAN EFFECTS

No information available

SECTION 12**ECOLOGICAL INFORMATION**

CHEMICAL NAME	Algae/Aquatic		Toxicity to	
	Plants	Fish	microorganisms	Crustacea
2-Hydroxyacetic acid	-	5000: 96 h Brachydanio rerio mg/L LC50 static	-	-
Diethylene glycol monobutyl ether	100: 96 h Desmodosmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	-	EC50: =2850mg/L (24h, Daphnia magna) EC50: >100mg/L (48h, Daphnia magna)

PERSISTENCE & DEGRADABILITY:

Readily biodegradable, according to appropriate OECD test.

BIOACCUMULATION POTENTIAL:

Chemical Name	Partition coefficient
2-Hydroxyacetic acid	-1.11

MOBILITY IN SOIL:

No information available

RESULTS OF PBT AND vPvB ASSESSMENT

No information available

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste from Residues/Unused Products: Dispose of in accordance with local regulations

Contaminated packaging: Do not reuse empty containers

EWC Waste Disposal No: According to the European Waste Catalog, Waste Codes are not product specific, but application specific waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14**TRANSPORT INFORMATION****DOT**

Proper Shipping Name: UN3265, Corrosive liquid, acidic, organic, n.o.s., (contains 2-Hydroxyacetic acid), 8, PGII
 Hazard Class: 8
 UN/ID No: UN3265
 Packing Group: PG II

IMDG/IMO

Proper Shipping Name: UN3265, Corrosive liquid, acidic, organic, n.o.s., (contains 2-Hydroxyacetic acid), 8, PGII
 Hazard Class: 8
 UN/ID No: UN3265
 Packing Group: PG II

ADR/RID

Proper Shipping Name: UN3265, Corrosive liquid, acidic, organic, n.o.s., (contains 2-Hydroxyacetic acid), 8, PGI
Hazard Class: 8
UN/ID No: UN3265
Packing Group: PG II

ICAO/IATA

Proper Shipping Name: UN3265, Corrosive liquid, acidic, organic, n.o.s., (contains 2-Hydroxyacetic acid), 8, PGI
Hazard Class: 8
UN/ID No: UN3265
Packing Group: PG II

SECTION 15**REGULATORY INFORMATION**

Water endangering class = 1

INTERNATIONAL REGULATIONS

TSCA:	Complies
EINECS/ELINCS:	-
DSL/NDSL:	Complies
PICCS:	-
ENCS:	-
IECSC:	-
AICS:	-
KECL:	-

Legend:

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

EINECS - European Inventory of Existing Chemical Substances

ELINCS - European List of Notified Chemical Substances

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

US FEDERAL REGULATIONS**SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	No

Sudden Release of Pressure Hazard: No
Reactive Hazard: No

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT):

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the

CWA (CLEAN WATER ACT) LISTED SUBSTANCES:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

Chemical Name	WHMIS Hazard Class
2-Hydroxyacetic acid	1 % E
Diethylene glycol monobutyl ether	1 % B3, D2B

SECTION 16

OTHER INFORMATION

NFPA

Health Hazards: 3
Flammability: 0
Stability: 0
Physical and Chemical Properties: -

HMIS

Health Hazards: 3
Flammability: 0
Physical Hazards: 0
Personal Protection: C.



Full text of H-Statements referred to under Sections 2 and 3

H314 - Causes severe skin burns and eye damage
H332 - Harmful if inhaled

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet

Legend

Prepared By: HSE Department
Issue Date: 16-Oct-25
Revision Date: 16-Oct-25
Revision Note: Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

US Only:

This safety data sheet complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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