

RelaTECH Synthetic Coolant 825

Product Use: Synthetic metalworking fluid

SDS #: 441 Product Code: 951620825SC

Manufactured For:

RelaDyne, LLC 8280 Montgomery Road, Suite 101 Cincinnati, OH 45236 888-830-3156 www.reladyne.com

Emergency Phone Number: INFOTRAC 800-535-5053

2. Hazard(s) identification

Physical hazards Health hazards

Environmental		hazards
OSHA	defined	hazards
Label elements		



Signal word	Warning
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statement Prevention	Keep only in original container. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.
Response	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If swallowed: Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
Storage	Protect from sunlight. Store in a closed container. Store away from incompatible materials. Store in accordance with local/regional/national/international regulation.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

Category 1

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Category 1

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOLAMINE		102-71-6	10 - 30
HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S- TRIAZINE		4719-04-4	0.1 - 1

Other components below reportable levels

60 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. If exposed or concerned: Get medical advice/attention.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Dry powder. Carbon dioxide (CO2). Water.
Unsuitable extinguishing media	Not applicable, non-combustible.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.

chemical	
Special protective equipment and	Not available.
precautions for firefighters Fire	
fighting	Move containers from fire area if you can do so without risk.
equipment/instructions	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. NIOSH: Pocket Guide to Chemical Hazards

	Туре	Value	Form
TRIETHANOLAMINE (CAS	102-71-6) TWA	5 mg/m3	
Exposure guidelines			
US - California OELs: Skin d	esignation		
None			
US ACGIH Threshold Limit \	/alues: Skin designation		
	Cood general ventilation (typically 10 or	, abangaa nar baur) abauld l	ha used Ventilation rates
Appropriate engineering controls	Good general ventilation (typically 10 air should be matched to conditions. If appl		
	or other engineering controls to maintair	n airborne levels below reco	mmended exposure limits. If
	exposure limits have not been established wash fountain and emergency showers	ed, maintain airborne levels are recommended.	to an acceptable level. Eye
Individual protection measures, s	uch as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (o	r goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant g	loves.	
Other	Wear suitable protective clothing and glo	oves.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clot	thing, when necessary.	
General hygiene considerations	onsiderations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective		
	equipment to remove contaminants.		
9. Physical and chemical p	roperties		
Appearance	Amber		
Physical state	Liquid.		
Form	Liquid.		
Color	Amber		
Odor	Chemical		
Odor threshold	Not available.		
рН	9.0		
Melting point/freezing point	-10 °F (-23.3 °C)		
Initial boiling point and boiling	> 212 °F (> 100 °C) estimated		
range			
Flash point	Not Applicable		
Evaporation rate	Like water when diluted		
Flammability (solid, gas)	Not applicable.		

Upper/lower flammability or explosive limits

opper/lower naminability of explos	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	100 % Water Miscible
Partition coefficient (n- octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
pH in aqueous solution	9.0
Specific gravity	1.077
VOC ASTM D2369	15 %
10. Stability and reactivity	
Reactivity	Not Applicable
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Do not add sodium nitrite or other nitrosating agents which may form cancer causing
	nitrosamines. Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Smoke, fumes, oxides of nitrogen, and oxides of carbon

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects		
Acute toxicity Components	Harmful in contact with skin. May cause allergic sk Species	kin reaction. Test Results
TRIETHANOLAMINE (CAS 102-71-	6)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg

Skin corrosion/irritation	Prolonged sl	kin contact may cause temporary irritation.	Defatting, drying and cracking of skin.	
Serious eye damage/eye	Causes serie	Causes serious eye irritation.		
rritation				
Respiratory or skin sensitization				
Respiratory sensitization	Not classifie	d.		
Skin sensitization	•	is not expected to cause skin sensitization		
Germ cell mutagenicity	No data ava mutagenic o	ilable to indicate product or any componen r genotoxic.	ts present at greater than 0.1% are	
Carcinogenicity	This product	is not considered to be a carcinogen by IA	RC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall E	Evaluation of Ca	rcinogenicity		
TRIETHANOLAMINE (CAS 102-71-6)	3 Not classifiable as to	carcinogenicity to humans.	
US. OSHA Specifically Regu Not listed.	Ilated Substance	es (29 CFR 1910.1001-1050)		
Reproductive toxicity	This product	t is not expected to cause reproductive or	developmental effects.	
Specific target organ toxicity single exposure	- Not classifie	d.		
Specific target organ toxicity epeated exposure	- Not classified	d.		
Aspiration hazard	Not classifie	d.		
Chronic effects	May be harn	nful if absorbed through skin. Prolonged inh	alation may be harmful.	
		r repeated exposure may cause liver and k ed in humans.	kidney damage. These effects have not	
12. Ecological information				
Ecotoxicity		is not classified as environmentally hazar at large or frequent spills can have a harmf		
Components	possibility th	Species	Test Results	
DIETHANOLAMINE (CAS 1	11 42 2)			
Aquatic	11-42-2)			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	61.8 - 86.04 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promela	-	
TRIETHANOLAMINE (CAS				
Aquatic	102-11-0)			
	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours	
Crustacea	L000			

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)	
DIETHANOLAMINE	-1.43
TRIETHANOLAMINE	-1

Mobility in soil Other adverse effects	No data available. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal considerations	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.
14. Transport information	
DOT	
UN number UN proper shipping name	Not Regulated In Drum Quantities Not Regulated in Drum Quantities
Transport hazard class(es)	Not Regulated in Drum Quantities

IATA

UN number	Not	Regulated
UN proper shipping name	Not	Regulated
Transport hazard class(es)	Not R	Regulated

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information

	Passenger and cargo aircraft	Allowed.
	Cargo aircraft only	Allowed.
IMDG		
UN number		Not Regulated
UN proper shipping name		Not Regulated
Tra	ansport hazard class(es)	Not Regulated

Marine pollutant No. EmS F-A, S-B Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. It may be reportable under the provisions of SARA Sections 311 and 312 if specific threshold criteria are met or exceeded. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S-1.0 % One-Time Export Notification only. **TRIAZINE (CAS 4719-04-4)** CERCLA Hazardous Substance List (40 CFR 302.4) DIETHANOLAMINE (CAS 111-42-2) Listed. SARA 304 Emergency release notification Not regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name CAS number % by wt. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act
(SDWA)Not regulated.Food and DrugNot regulated.Administration(FDA)

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List
 - TRIETHANOLAMINE (CAS 102-71-6)
- US. New Jersey Worker and Community Right-to-Know Act
 - TRIETHANOLAMINE (CAS 102-71-6)
- US. Pennsylvania Worker and Community Right-to-Know Law
- TRIETHANOLAMINE (CAS 102-71-6)
- US. Rhode Island RTK

DIETHANOLAMINE (CAS 111-42-2)

California South Coast Air This product is subject to SCAQMD Rule 1144; it is compliant and may be sold and used in the SCAQMD. The VOC content of the product is 108 g/L, measured by ASTM Method E-1868-10. This product has a specified use dilution VOC limit of 75 g/L, the maximum dilution concentration is 69 % to maintain compliance.

US. California Proposition 65

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

NITRILOTRIACETIC ACID (CAS 139-13-9)	Listed: January 1, 1988
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International Inventories

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rice	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Voc" indicatos this product	complies with the inventory requirements administered by the governing country	v(c)

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date Revision date	6-01-2015
Version #	01
Further information	Not available.
Disclaimer	This Safety Data Sheet is prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. The information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Revision Information	Physical & Chemical Properties: Multiple Properties