

1. Identification

1.1. Product identifier

PRODUCT NAME: Process Lubricant

PRODUCT CODE: SMC20001, SMC20005

1.2. Recommended Use of Chemical and Restrictions on Use

Product Use: Other means of Identification
Chemical Family: Water, organic compounds
PC1 Process Lubricant, Cooling Lubricant

1.3. Details of the supplier of the safety data sheet

Name/Address: C.R. Laurence Co., Inc.
2503 E. Vernon Ave,
Los Angeles, CA 90058

Telephone Number: 1.800.421.6144

1.4. Emergency telephone number

EMERGENCY TELEPHONE: CHEMTREC 1-800-424-9300 (US and Canada)

Number: INTERNATIONAL +1-703-527-3887

2. Hazards Identification

2.1 Classification of the Product in Accordance to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Repr.	2 (unborn child)	Reproductive toxicity

2.2 Label Elements According to OSHA HAZCOM2012

2.2a Signal Word:
Danger

2.2b Hazard Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H361	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

2.2c Pictogram



2.2d Precautionary Statements (Prevention)

P280 Wear protective gloves, protective clothing and eye protection or face protection.
P273 Avoid release to the environment.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.
P308 + P313 IF exposed or concerned: Get medical attention.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P332 + P313 If skin irritation occurs: Get medical attention.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

2,2',2''-nitriлотriethanol

CAS Number: 102-71-6

Content (W/W): ≥ 10.0 - $< 15.0\%$

Synonym: 2,2',2''-Nitriлотriethanol; Triethanolamine

2-(2-aminoethoxy)ethanol

CAS Number: 929-06-6

Content (W/W): ≥ 5.0 - $< 7.0\%$

Synonym: 2-(2-Aminoethoxy)ethanol

Polyoxyethylenedimethyliminoethylene dichloride

CAS Number: 31075-24-8

Content (W/W): ≥ 0.3 - $< 1.0\%$

Synonym: No data available.

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

CAS Number: 64665-57-2

Content (W/W): ≥ 0.2 - $< 0.3\%$

Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: 2,2',2''-nitrilotriethanol

Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: 2-(2-aminoethoxy)ethanol

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote: No known specific antidote.

5. Fire-Fighting Measures

5.1 Extinguishing Media

5.1a Suitable extinguishing media
carbon dioxide, alcohol-resistant foam, dry powder, water spray

5.1b Unsuitable extinguishing media for safety reasons water jet

5.2 Specific Hazards Arising from the Substance or Mixture

Hazards during fire-fighting:

Hazardous decomposition products formed under fire conditions.

Advice for fire-fighters

Protective equipment for fire-fighting:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

6.2 Environmental Precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

6.3 Methods and Material for Containment and Cleaning Up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

7.1 Precautions for Safe Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:

Storage temperature: 0 - 40 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

2,2',2"-nitrilotriethanol ACGIH, US: TWA value 5 mg/m³ ;

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber gloves - material thickness: 0.5 mm, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No data available.	
Colour:	blue	
pH value:	8.7 - 9.3	
Melting point:	not determined	
Freezing point:	not determined	
Boiling range:	not determined	
onset of boiling:	not determined	
Sublimation point:	No applicable information available.	
Flash point:	not applicable The product has not been tested. The statement has been derived from the properties of the individual components.	(ASTM D93)
Flammability:	not applicable	
Lower explosion limit:	not determined	
Upper explosion limit:	not applicable	
Autoignition:	No data available.	
Vapour pressure:	26.70 hPa (20 °C)	(calculated)
Density:	1.047 g/cm ³ (20 °C)	
Relative density:	No data available.	
Vapour density:	Lighter than air.	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	No applicable information available.	

Viscosity, kinematic:	6.0 mm ² /s (23 °C)
Particle size:	No applicable information available.
Solubility in water:	fully soluble
Miscibility with water:	miscible
Solubility (quantitative):	No data available.
Solubility (qualitative):	No data available.
Molar mass:	No data available.
Evaporation rate:	No data available.

10. Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

10.2 Chemical Stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of Hazardous Reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to Avoid

Avoid direct sunlight. Avoid freezing.

10.5 Incompatible Materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

10.6 Hazardous Decomposition Products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

11.1 Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

11.2 Symptoms Related to Acute Toxicity/ Effects

Acute toxicity

Assessment of acute toxicity: Based on available data, the classification criteria are not met.

Oral

Type of value: ATE

Value: 56,689 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects

Assessment of STOT single:

Based on available data, the classification criteria are not met.

Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

Information on: 2-(2-aminoethoxy)ethanol

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Information on: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/EffectsRepeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

Information on: 2,2',2''-nitritotriethanol

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies. IARC Group 3 (not classifiable as to human carcinogenicity).

Indication of possible carcinogenic effect in animal tests. The substance showed carcinogenic activity in animals after chronic administration to the skin.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: 2,2',2''-nitritotriethanol

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Causes developmental effects in animals at high, maternally toxic doses.

Information on: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life. Toxic to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

12.2 Bio-accumulative potential

Bioaccumulation potential

No data available.

12.3 Mobility in Soil

Assessment transport between environmental compartments

No data available.

13. Disposal considerations

13.1 Waste disposal of substance

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

13.2 Container disposal

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

USDOT

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains
POLYOXYETHYLENEDIMETHYLIMINOETHYLENE
DICHLORIDE)

Sea transport

IMDG

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains
POLYOXYETHYLENEDIMETHYLIMINOETHYLENE
DICHLORIDE)

Air transport

IATA/ICAO

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains
POLYOXYETHYLENEDIMETHYLIMINOETHYLENE
DICHLORIDE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations

State RTK

NJ

CAS Number

929-06-6

102-71-6

Chemical name

2-(2-aminoethoxy)ethanol

2,2',2"-nitrilotriethanol

PA 102-71-6 2,2',2"-nitrilotriethanol

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including DIETHANOLAMINE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 1 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 1

16. Other Information

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2025/02/04

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