

SAFETY DATA SHEET



Techniclean 45 XBC

Section 1. Identification

GHS product identifier Techniclean 45 XBC

Product code 470035-FR01

SDS # 470035

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

Identified uses Industrial cleaners.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Uses advised against Consult with experts for use other than relevant identified use.

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Section 2. Hazard identification

Classification of the substance or mixture ACUTE TOXICITY (oral) - Category 4
SKIN CORROSION - Category 1B
SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms



Signal word Danger

Hazard statements H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

Precautionary statements

Prevention P280 - Wear protective gloves, protective clothing and eye or face protection.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

Section 2. Hazard identification

Response

P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
 P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician.
 P363 - Wash contaminated clothing before reuse.
 P305 + P351 + P338, P310 - 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 physician.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Corrosion inhibitors and additives in aqueous solution.

Ingredient name	Synonyms	% (w/w)	CAS number
2,2',2''-nitrioltriethanol	Ethanol, 2,2',2''-nitrioltris-; TRIETHANOLAMINE; 2,2',2''-Trihydroxyethylamine; Tris (2-hydroxyethyl)amine; trolamine; Ethanol, 2,2',2''-nitrioltri-; ETHANOL, 2,2',2''-NITRILOTRIS-; TRIS(BETA-HYDROXYETHYL)AMINE; NITRILOTRIETHANOL; 2,2',2''-NITRILOTRIS(ETHANOL); Trihydroxytriethylamine	≥10 - ≤30	CAS: 102-71-6
Amine carbamate	carbonic acid, compound with 2-aminoethanol (1:2); ethanol, 2-amino-, reaction products with carbon dioxide	≥10 - ≤30	CAS: 174125-97-4
2-aminoethanol	ethanolamine; Ethanol, 2-amino-; Monoethanolamine; 2-Hydroxyethylamine; Ethylolamine; β-Aminoethyl alcohol; Aminoethanol; olamine; colamine; Monoethanolamine, 10% in aqueous solution; BETA-AMINOETHYL ALCOHOL; Colamine	≥5 - ≤10	CAS: 141-43-5
3,5,5-trimethylhexanoic acid	Hexanoic acid, 3,5,5-trimethyl-; Alkanoic acid (C4-30); Hexanoic acid, 3,5,5-trimethyl	≥1 - ≤5	CAS: 3302-10-1
Benzotriazole	1H-Benzotriazole; 1,2,3-Benzotriazole; Azimidobenzene; 1,2,3-Triazaindene; 1H-Benzo[d][1,2,3]triazole; 1H-1,2,3-benzotriazole; 1H-Benzotraizole; 1,2-AMINOAZOPHENYLENE; 1,2-benzothiazoli-3(2H)-one	≥1 - ≤5	CAS: 95-14-7

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
Skin contact	<input checked="" type="checkbox"/> Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Clean shoes thoroughly before reuse. Chemical burns must be treated promptly by a physician. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water if person is conscious. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	Causes serious eye damage.
Inhalation	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
Skin contact	Causes severe burns.
Ingestion	Harmful if swallowed. Causes burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Adverse symptoms may include the following: stomach pains nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

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Product code 470035-FR01

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Version 3.02 **Date of issue** 10/31/2025.

Format Canada

Language ENGLISH

(Canada)

(ENGLISH)

Section 4. First-aid measures

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products Combustion products may include the following:
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
nitrogen oxides (NO, NO₂ etc.)

Special protective actions for fire-fighters No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Wear appropriate personal protective equipment, as indicated in Section 8.

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Use only with adequate ventilation. Avoid contact of spilled material and runoff with soil and surface waterways.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. DO NOT ADD NITRITES TO THIS FLUID.

Not suitable

Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2,2',2''-nitrioltriethanol	<p>CA Saskatchewan Provincial (Canada) STEL 15 minutes: 10 mg/m³. Issued/ Revised: 8/2007. TWA 8 hours: 5 mg/m³. Issued/Revised: 8/2007.</p> <p>CA British Columbia Provincial (Canada) TWA 8 hours: 5 mg/m³. Issued/Revised: 8/2004.</p> <p>CA Ontario Provincial (Canada) TWA 8 hours: 3.1 mg/m³. Issued/Revised: 6/2015. TWA 8 hours: 0.5 ppm. Issued/Revised: 6/2015.</p> <p>CA Quebec Provincial (Canada) Sensitizer. TWAEV 8 hours: 5 mg/m³. Issued/Revised: 1/2000.</p> <p>CA Alberta Provincial (Canada) OEL 8 hours: 5 mg/m³. Issued/Revised: 7/2009.</p>
2-aminoethanol	<p>CA Saskatchewan Provincial (Canada) STEL 15 minutes: 6 ppm. Issued/Revised: 8/2007. TWA 8 hours: 3 ppm. Issued/Revised: 8/2007.</p> <p>CA British Columbia Provincial (Canada) TWA 8 hours: 3 ppm. Issued/Revised: 8/2004. STEL 15 minutes: 6 ppm. Issued/Revised: 8/2004.</p> <p>CA Ontario Provincial (Canada)</p>

Section 8. Exposure controls/personal protection

TWA 8 hours: 3 ppm. Issued/Revised: 6/2015.
STEL 15 minutes: 6 ppm. Issued/Revised: 6/2015.
CA Quebec Provincial (Canada)
TWAEV 8 hours: 3 ppm. Issued/Revised: 1/2000.
TWAEV 8 hours: 7.5 mg/m³. Issued/Revised: 1/2000.
STEV 15 minutes: 6 ppm. Issued/Revised: 1/2000.
STEV 15 minutes: 15 mg/m³. Issued/Revised: 1/2000.
CA Alberta Provincial (Canada)
OEL 8 hours: 7.5 mg/m³. Issued/Revised: 7/2009.
OEL 8 hours: 3 ppm. Issued/Revised: 7/2009.
OEL 15 minutes: 15 mg/m³. Issued/Revised: 7/2009.
OEL 15 minutes: 6 ppm. Issued/Revised: 7/2009.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Chemical splash goggles.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection	Wear chemical resistant gloves. Recommended: Butyl gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Body protection	Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: half-face mask - inorganic gases/vapor filter (Type B) - particulate filter. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	Liquid.
Color	Yellow. [Light]
Odor	<input checked="" type="checkbox"/> Unfragranced
Odor threshold	Not available.
pH	<input checked="" type="checkbox"/> 9.55 [Conc. (% w/w): 1%]
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flash point	Closed cup: >100°C (>212°F) [Estimated. Water content interferes with flash point determination.]
Pour point	Not available.
Drop Point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosion limit/flammability limit	Not available.
Vapor pressure	<0.01 kPa
Relative vapor density	Not available.
Density	>1000 kg/m ³ (>1 g/cm ³) at 15°C

Section 9. Physical and chemical properties

Relative density Not available.

Solubility(ies)

Media	Result
water	Soluble

Partition coefficient: n-octanol/water Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
2,2',2''-nitrioltriethanol	324	615.2	
2-aminoethanol	410	770	
Benzotriazole	210	410	

Decomposition temperature Not available.

Viscosity Not available.

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid excessive heat.

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials. Slightly reactive or incompatible with the following materials: acids.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

Amine carbamate

Result

Rat - Female - Oral - LD50

1089 mg/kg

OECD 401

Rabbit - Dermal - LD50

2504 mg/kg

OECD 402

Rat - Inhalation - LD50 Vapor

1300 mg/m³ [6 hours]

Rat - Oral - LD50

1089 mg/kg

OECD 401

Rat - Dermal - LD50

2504 mg/kg

OECD 402

2-aminoethanol

Section 11. Toxicological information

3,5,5-trimethylhexanoic acid	Rat - Inhalation - LC50 Vapor 1487 mg/m ³ [6 hours] Rat - Oral - LD50 1160 mg/kg OECD 401 Rat - Dermal - LD50 >2000 mg/kg Rat - Oral - LD50 500 mg/kg OECD 423 Rabbit - Dermal - LD50 >2000 mg/kg
Benzotriazole	

Skin corrosion/irritation

Product/ingredient name

Amine carbamate

2-aminoethanol

3,5,5-trimethylhexanoic acid

Benzotriazole

Result

Rabbit - Skin - Not irritant

OECD 404

Rabbit - Skin - Corrosive

OECD 404

Rabbit - Skin - Irritant

OECD 404

Rabbit - Skin - Non-irritant to skin.

OECD 404

Serious eye damage/eye irritation

Product/ingredient name

Amine carbamate

2-aminoethanol

3,5,5-trimethylhexanoic acid

Benzotriazole

Result

Rabbit - Eyes - Not irritant

OECD 405

Rabbit - Eyes - Corrosive

OECD

Rabbit - Eyes - Severe irritant

OECD 405

Rabbit - Eyes - Irritant

OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

Amine carbamate

2-aminoethanol

3,5,5-trimethylhexanoic acid

Benzotriazole

Result

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Section 11. Toxicological information

Result: Not sensitizing

Germ cell mutagenicity

Product/ingredient name

Amine carbamate

Result

In vitro - Bacteria

OECD 471

Result: Negative

In vitro - Mammalian-Animal

OECD 473

Result: Negative

In vivo - Mammalian-Animal

OECD 474

Result: Negative

2-aminoethanol

In vitro - Bacteria

OECD 471

Result: Negative

In vitro - Mammalian-Animal

OECD 473

Result: Negative

In vitro - Mammalian-Animal

OECD 476

Result: Negative

3,5,5-trimethylhexanoic acid

In vitro - Bacteria

Bacterial Reverse Mutation Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

Benzotriazole

In vitro - Bacteria

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

In vivo - Mammal - species unspecified

Mammalian Erythrocyte Micronucleus Test

Result: Negative

Carcinogenicity

Product/ingredient name

Benzotriazole

Result

Rat - Oral - Unspecified

OECD 451

Result: Negative

Reproductive toxicity

Product/ingredient name

Result

Section 11. Toxicological information

<input checked="" type="checkbox"/> Amine carbamate	Rat - Oral OECD 416 <u>Maternal toxicity</u> : Negative <u>Fertility effects</u> : Negative <u>Developmental</u> : Negative
2-aminoethanol	Rat - Oral OECD 416 <u>Maternal toxicity</u> : Negative <u>Fertility effects</u> : Negative <u>Developmental</u> : Negative
3,5,5-trimethylhexanoic acid	Rat - Oral OECD 443 <u>Maternal toxicity</u> : Positive <u>Fertility effects</u> : Negative <u>Developmental</u> : Negative
Benzotriazole	Rat - Oral OECD 421 <u>Maternal toxicity</u> : Negative <u>Fertility effects</u> : Negative <u>Developmental</u> : Negative

Specific target organ toxicity (single exposure)

Product/ingredient name

2-aminoethanol

Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact	Causes serious eye damage.
Inhalation	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
Skin contact	Causes severe burns.
Ingestion	Harmful if swallowed. Causes burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur

Section 11. Toxicological information

Ingestion

Adverse symptoms may include the following:
stomach pains
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] Not available.

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Techniclean 45 XBC	1590.2	N/A	N/A	128.9	N/A
Amine carbamate	500	N/A	N/A	N/A	N/A
2-aminoethanol	500	1100	N/A	11	N/A
3,5,5-trimethylhexanoic acid	500	N/A	N/A	N/A	N/A
Benzotriazole	500	N/A	N/A	N/A	N/A

Additional information

Alkanolamine: This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added to such compositions.

Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Product/ingredient name

Result

Section 12. Ecological information

Amine carbamate

Acute - ErC50

OECD 201

Algae

39 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

32 mg/l [48 hours]

Acute - EC50

OECD 203

Fish

>100 mg/l [96 hours]

Chronic - NOEC

OECD 201

Algae

6.25 mg/l [72 hours]

2-aminoethanol

Acute - ErC50

OECD 201

Algae

2.8 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

27.04 mg/l [48 hours]

Acute - LC50

OECD 203

Fish

>100 mg/l [96 hours]

Chronic - ECr10

Algae

0.7 mg/l [72 hours]

Chronic - NOEC

OECD 211

Daphnia

0.85 mg/l [21 days]

Chronic - NOEC

OECD 210

Fish

1.24 mg/l [41 days]

3,5,5-trimethylhexanoic acid

Acute - EC50

OECD 201

Algae

81 mg/l [72 hours]

Acute - EC50

OECD 202

Daphnia

68 mg/l [48 hours]

Acute - LC50

OECD 203

Fish

123 mg/l [96 hours]

Acute - EC50

OECD 209

Micro-organism

470 mg/l [3 hours]

Chronic - NOEC

OECD 201

Algae

10 mg/l [72 hours]

Benzotriazole

Acute - ErC50

Section 12. Ecological information

OECD 201
Algae
75 mg/l [72 hours]
Acute - EC50
OECD 202
Daphnia
15.8 mg/l [48 hours]
Acute - LC50
OECD 203
Fish
180 mg/l [96 hours]
Acute - EC50
OECD 209
Micro-organism
940 mg/l [3 hours]
Chronic - EC10
OECD 201
Algae
1.18 mg/l [72 hours]
Chronic - EC10
OECD 211
Daphnia
0.97 mg/l [21 days]

Persistence and degradability

Expected to be biodegradable.

Product/ingredient name

Amine carbamate

2-aminoethanol

3,5,5-trimethylhexanoic acid

Benzotriazole

Result

OECD 301D
100% [28 days] - Readily
OECD 301A
>90% [21 days] - Readily
OECD 301A
96% [21 days] - Readily
OECD 301D
0% [28 days] - Not readily

Bioaccumulative potential

Not available.

Product/ingredient name	LogP_{ow}	BCF	Potential
2,2',2''-nitrioltriethanol	-1	-	Low
Amine carbamate	-1.78	-	Low
2-aminoethanol	-2.3	-	Low
3,5,5-trimethylhexanoic acid	3.2	-	Low
Benzotriazole	1.44	2.8	Low

Mobility in soil

Soil/Water partition coefficient

Not available.

Mobility

Liquid. Soluble in water.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2491	UN2491	UN2491	UN2491
UN proper shipping name	Ethanolamine solution	Ethanolamine solution	Ethanolamine solution	Ethanolamine solution
Transport hazard class(es)	8 	8 	8 	8 
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).	Emergency schedules F-A, S-B	-

Special precautions for user Not available.

Section 15. Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Other regulations

Australia inventory (AIC)

All components are listed or exempted.

Canada inventory

At least one component is not listed in DSL but all such components are listed in NDSL.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (CSCL)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

At least one component is not listed.

Section 15. Regulatory information

Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
United States inventory (TSCA 8b)	All components are active or exempted.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

Section 16. Other information

History

Date of issue/Date of revision 10/31/2025

Date of previous issue 16/02/2024.

Version 3.02

Prepared by Product Stewardship

Key to abbreviations

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS Number = Chemical Abstracts Service Registry Number
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
UN = United Nations
Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

References

Not available.

📌 **Indicates information that has changed from previously issued version.**

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