

SAFETY DATA SHEET



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SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

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Material number:

107857

Primary product use:

Metal processing

Chemical family:

Acyl amido carboxylic acid, alkanolamine salt

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

No additional hazards are known except those derived from the labelling.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Substance name

: Acyl amido carboxylic acid, alkanolamine salt

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Triethanolamine	102-71-6	10 - 30

SECTION 4. FIRST AID MEASURES

General advice

: Remove/Take off immediately all contaminated clothing.
Show this safety data sheet to the doctor in attendance.

If inhaled

: Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact

: Wash thoroughly with soap and water for 15 minutes. If skin

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irritation occurs, seek medical attention.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Get medical attention immediately.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet
Foam
Carbon dioxide (CO₂)
Dry powder

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Nitrogen oxides (NO_x)
Carbon monoxide
Carbon dioxide (CO₂)
Combustion gases of organic materials must in principle be graded as inhalation poisons.

Further information : Wear full protective clothing and self-contained breathing apparatus.

Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing.
Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.

Environmental precautions : Do not empty into drains.

Methods and materials for containment and cleaning up : Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water
Can be landfilled or incinerated, when in compliance with local regulations.

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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

Advice on safe handling : Wash thoroughly after handling.

Technical measures/Precautions : Protect from extreme heat and cold

Recommended storage temperature : 5 - 40 °C

Storage period : 24 Months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Triethanolamine	102-71-6	TWA	5 mg/m3	ACGIH
	Further information: Eye irritation, Skin irritation			
		PEL	5 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection
Remarks : Butyl Rubber Or Neoprene.

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective equipment.

Protective measures : Avoid contact with skin and eyes.
Do not inhale vapours

Hygiene measures : Observe the usual precautions for handling chemicals.
When using do not eat or drink.
Keep away from food and drink.
Wash hands before breaks and at the end of workday.
Remove/Take off immediately all contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

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Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	8 - 9 (20 °C) Concentration: 10 g/l
pour point	:	< -20 °C Method: ISO 3016
Initial boiling point	:	> 100 °C Method: DIN 53171
Flash point	:	> 100 °C Method: DIN 51584 (open cup)
Evaporation rate	:	not determined
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Combustion number :		Not applicable
Vapour pressure	:	approx. 23 hPa (20 °C) Corresp. to vapour pressure of water
Relative vapour density	:	not determined
Density	:	1.09 g/cm ³ (20 °C) Method: DIN 51757
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	soluble (20 °C)
Solubility in other solvents	:	not determined Solvent: fat
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 270 °C Method: DTA
Viscosity		

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Viscosity, dynamic	: approx. 630 mPa.s (25 °C)
Viscosity, kinematic	: not determined
Explosive properties	: Not explosive Method: Expert judgement
Oxidizing properties	: The substance or mixture is not classified as oxidizing. Method: Expert judgement
Metal corrosion rate	: < 6.25 mm/a Not corrosive to metals
Minimum ignition energy	: not determined
Particle size	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: not known
Hazardous decomposition products	: When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact

Skin contact

Acute toxicity**Product:**

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	: Remarks: no data available
Acute dermal toxicity	: Remarks: no data available

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Components:**Triethanolamine:**

Acute oral toxicity : LD50 (Rat): 8,000 mg/kg

Skin corrosion/irritation**Product:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation**Product:**

Species: rabbit eye

Result: slight irritant effect - does not require labelling

Method: OECD Test Guideline 405

GLP: yes

Respiratory or skin sensitisation**Product:**

Remarks: no data available

Germ cell mutagenicity**Product:**Germ cell mutagenicity - : No information available.
Assessment**Carcinogenicity****Product:**Carcinogenicity - : No information available.
Assessment**IARC** Not listed**OSHA** Not listed**NTP** Not listed**Reproductive toxicity****Product:**Reproductive toxicity - : No information available.
Assessment

No information available.

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STOT - single exposure**Product:**

Remarks: no data available

STOT - repeated exposure**Product:**

Remarks: no data available

Repeated dose toxicity**Product:**

Remarks: This information is not available.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Juvenile Turbot): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC50 (Acartia tonsa): 10.5 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: ISO 14669 and PARCOM method
GLP: yes

EC50 (Daphnia magna (Water flea)): > 400 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Information refers to the main component.

Toxicity to algae : ErC50 (Skeletonema costatum (marine diatom)): 133.2 mg/l
Exposure time: 72 h
Method: ISO 10253

Toxicity to bacteria : EC50: > 1,000 mg/l
Method: OECD Test Guideline 209

Persistence and degradability**Product:**

Biodegradability : Result: Inherently biodegradable.
Biodegradation: > 90 %
Exposure time: 7 d
Method: OECD Test Guideline 302B

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Test Type: aerobic
Inoculum: activated sludge, industrial
Concentration: 41 mg/l
Result: Biodegradable
Biodegradation: 71 %
Exposure time: 28 d
Lag phase: 7.5 d
Method: OECD Test Guideline 301B

Inoculum: activated sludge, domestic
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 22 d
Method: OECD Test Guideline 301A

Result: Inherently biodegradable.
Biodegradation: 30 - 40 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Chemical Oxygen Demand (COD) : 1,577 mg/g

Dissolved organic carbon (DOC) : 491 mg/g

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: no data available

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: no data available

Other adverse effects**Product:**

Environmental fate and pathways : Remarks: no data available

Results of PBT and vPvB assessment : Remarks: no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource : No -- Not as sold.

Conservation and Recovery
Authorization Act

Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Contaminated packaging : Regulations concerning reuse or disposal of used packaging materials must be observed.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.**The components of this product are reported in the following inventories:**

TSCA All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -

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Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Observe national and local legal requirements

Do not add nitrites or other nitrosating agents. A nitrosoamine, which may cause cancer, may be formed.

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet

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information before handling any of these products. For additional information, please contact Clariant.

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