

TRIETHANOLAMIN REIN

Version: 6.13

Revision Date 2022/10/18

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	TRIETHANOLAMIN REIN
REACH No.	01-2119486482-31-0002
Substance name (REACH / CLP)	2,2',2''-Nitrilotriethanol

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

Use of the Substance/Mixture Industrial use, raw material for synthesis processes in the chemical industry, anti-corrosion agent

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40 E-mail: msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+44 1235 239670	Europe
	+44 1235 239671	Middle East, Africa
	+1 215 207 0061	North America, South America
	+65 3158 1074	Asia Pacific Region
	+44 1865 407333	Global (english)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request.

2.3 Other hazards

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No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

2,2'-iminodiethanol

content: $\geq 0.1 - < 1\%$

component type: Impurity

EC-No.: 203-868-0
Classification (Regulation
(EC) No 1272/2008):

Index-No.: 603-071-00-1
Acute Tox. 4 (Oral) H302
STOT RE 2 H373
Skin Irrit. 2 H315
Eye Dam. 1 H318
Repr. 2 H361

CAS-No.: 111-42-2

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	No hazards which require special first aid measures.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with soap and water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician if necessary. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available.
	Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water, Foam, Dry powder, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting In case of fire hazardous decomposition products may be produced such as: Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions Handle in accordance with good industrial hygiene and safety practice.

Special precautions Forms slippery/greasy layers with water.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling No special technical protective measures required.

Advice on protection against fire and explosion Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep container tightly closed.

Other data Protect from frost, heat and sunlight.

container material unsuitable materials: Light metals/light metal alloys, copper/copper alloys

7.3 Specific end use(s)

Specific use(s) This information is not available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
Triethanolamine 2,2',2''-nitrilotriethanol	TWA	5 mg/m ³	2013-03-01	US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment
	eye irr: Eye irritation Skin irritation			
Triethanolamine 2,2',2''-nitrilotriethanol	PEL	5 mg/m ³	2014-11-26	US. California permissible exposure limits for chemical contaminants
Diethanolamine 2,2'-iminodiethanol	TWA	1 mg/m ³	2013-03-01	US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment
	A3: Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption Liver damage Kidney damage			
Diethanolamine 2,2'-iminodiethanol	TWA TWA	15 mg/m ³ 3 ppm	2013-10-08 2013-10-08	US. NIOSH Recommended Exposure Limits
Diethanolamine 2,2'-iminodiethanol	TWA TWA	15 mg/m ³ 3 ppm	1989-01-19 1989-01-19	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
Diethanolamine 2,2'-iminodiethanol	PEL PEL	2 mg/m ³ 0.46 ppm	2014-11-26 2014-11-26	US. California permissible exposure limits for chemical contaminants
	S: Skin			
2,2',2''-nitrilotriethanol	AGW	1 mg/m ³	2018-06-07	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	DFG: Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (MAK Commission) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2,2'-iminodiethanol	AGW AGW	0.5 mg/m ³ 0.11 ppm	2017-06-08 2017-06-08	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	H: Skin absorption When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child Substance sensitizing through the skin Committee on Hazardous Substances (Germany) The reaction with nitrosating agents can lead to the formation of carcinogenic N-nitrosoamine. Sum of vapor and aerosols.			

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EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: 2,2',2"-nitrioltriethanol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	7.5 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects		Not relevant / Not applicable
	dermal, long-term exposure - local effects	0.14 mg/cm2	based on body weight and day
	Inhalation, long-term exposure - local effects	1 mg/m3	
	Consumers	dermal, Acute/short-term exposure - systemic effects	
Inhalation, Acute/short-term exposure - systemic effects			Not relevant / Not applicable
Oral, Acute/short-term exposure - systemic effects			Not relevant / Not applicable
dermal, Acute/short-term exposure - local effects			Not relevant / Not applicable
Inhalation, Acute/short-term exposure - local effects			Not relevant / Not applicable
dermal, long-term exposure - systemic effects		2.66 mg/kg	based on body weight and day
Inhalation, long-term exposure - systemic effects			Not relevant / Not applicable
Oral, long-term exposure - systemic effects		3.3 mg/kg	based on body weight and day
dermal, long-term exposure - local effects		0.07 mg/cm2	based on body weight and day
Inhalation, long-term exposure - local effects	0.4 mg/m3		

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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 2,2',2"-nitrilotriethanol		
Environmental Compartment	Value	Note
Fresh water	0.32 mg/l	
Marine water	0.032 mg/l	
intermittent release	5.12 mg/l	
Sewage treatment plant	10 mg/l	
Fresh water sediment	1.7 mg/kg	based on dry weight
Marine sediment	0.17 mg/kg	based on dry weight
Soil	0.151 mg/kg	based on dry weight
food		Not relevant / Not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.
Hand protection	<p>Material: Nitrile rubber/nitrile latex Break through time: >= 480 min Glove thickness: 0.35 mm</p> <p>Material: butyl-rubber Break through time: >= 480 min Glove thickness: 0.5 mm</p> <p>The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).</p>
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	General industrial hygiene practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	solid; 20 °C; 1,013 hPa
Form	solid
Colour	colorless to yellow
Odour	ammoniacal
Odour Threshold	Not applicable
pH	ca. 11; 20 g/l; 20 °C
Melting point/range	ca. 21 °C
Boiling point/boiling range	Not applicable Thermal decomposition
Flash point	ca. 190 °C; DIN 51758
Evaporation rate	Not relevant / Not applicable Justification: Solid
Flammability (solid, gas)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0.01 hPa; 20 °C
Relative vapour density	No data available
Density	ca.1.12 g/cm ³ ; 20 °C
Relative density	No data available
Water solubility	completely miscible
Partition coefficient: n-octanol/water	log Pow: -1.75; (calculated)
Ignition temperature	ca. 330 °C; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	208 mPas; 40 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	No data available

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Note Stable at normal ambient temperature and pressure.
No decomposition if stored and applied as directed.

10.2 Chemical stability

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Note	No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions	
Hazardous reactions	None known.
10.4 Conditions to avoid	
Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
10.5 Incompatible materials to avoid	
Materials to avoid	None known.;
10.6 Hazardous decomposition products	
Hazardous decomposition products	No decomposition if stored normally.
Thermal decomposition	No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	2,2',2''-nitrilotriethanol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	2,2',2''-nitrilotriethanol: Study/Test not required Justification: Data are available from alternate exposure routes. The value is higher than maximum vapor concentrations obtainable under study conditions
Acute dermal toxicity	2,2',2''-nitrilotriethanol: LD50 Rabbit: > 5,000 mg/kg; OECD Test Guideline 402 Symptoms: Erythema (literature value) Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	2,2',2''-nitrilotriethanol: Rabbit: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Eye irritation	2,2',2''-nitrilotriethanol: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met.
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Respiratory or skin sensitisation

Sensitisation	2,2',2''-nitrilotriethanol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value)
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Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro

2,2',2''-nitrilotriethanol:
In vitro tests did not show mutagenic effects
(literature value)

Genotoxicity in vivo

2,2',2''-nitrilotriethanol:
The study is not necessary.
Justification:
In vitro tests did not show mutagenic effects

Remarks

2,2',2''-nitrilotriethanol:
Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity

2,2',2''-nitrilotriethanol:
Rat; dermal; 2 years; 5 days/week; OECD Test Guideline 451
In this study no cancerogenic effects were observed.
(literature value)

Remarks

2,2',2''-nitrilotriethanol:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity

2,2',2''-nitrilotriethanol:
Animal testing did not show any effects on fertility.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: 2-aminoethanol

RemarksReproductive toxicity

2,2',2''-nitrilotriethanol:
Based on available data, the classification criteria are not met.

Teratogenicity

2,2',2''-nitrilotriethanol:
Animal testing did not show any effects on foetal development.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: 2-aminoethanol

Remarks-Teratogenicity

2,2',2''-nitrilotriethanol:
Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks

2,2',2''-nitrilotriethanol:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks

2,2',2''-nitrilotriethanol:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

2,2',2''-nitrilotriethanol:
Rat; oral feed; Subchronic toxicity
NOAEL: 1,000 mg/kg (based on body weight and day); OECD Test Guideline 408
(literature value)

2,2',2''-nitrilotriethanol:
Rat; Inhalation; Subacute toxicity; NOAEC: 0.5 mg/l
Test atmosphere: dust/mist; OECD Test Guideline 412
(literature value)

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2,2',2''-nitrilotriethanol:
 Rat; Dermal; Subchronic toxicity
 NOAEL: 250 mg/kg (based on body weight and day); OECD Test Guideline 411
 Target Organs: Kidney
 (literature value)

Aspiration hazard

Aspiration toxicity 2,2',2''-nitrilotriethanol:
 Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	2,2',2''-nitrilotriethanol: LC50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; flow-through test (literature value)
Toxicity to fish - Chronic toxicity	2,2',2''-nitrilotriethanol: study scientifically unjustified
Toxicity to daphnia and other aquatic invertebrates	2,2',2''-nitrilotriethanol: EC50 (48 h) Ceriodaphnia sp.: > 100 mg/l ; static test (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	2,2',2''-nitrilotriethanol: NOEC (21 d) Daphnia magna (Water flea): 16 mg/l; mortality; semi-static test (literature value)
Toxicity to aquatic plants	2,2',2''-nitrilotriethanol: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; (literature value)
Toxicity to bacteria	2,2',2''-nitrilotriethanol: EC50 (180 min) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; Respiration inhibition; OECD Test Guideline 209 (literature value)
Toxicity to soil dwelling organisms	2,2',2''-nitrilotriethanol: The study is not necessary. Justification: Readily biodegradable. Direct exposure to soil is unlikely.
Toxicity to terrestrial flora	2,2',2''-nitrilotriethanol: The study is not necessary. Justification: Readily biodegradable. Direct exposure to soil is unlikely.
Toxicity for other terrestrial non-mammalian fauna	2,2',2''-nitrilotriethanol: The study is not necessary. Justification: Studies on birds do not need to be conducted due to large mammalian dataset. Direct exposure to soil is unlikely. Readily biodegradable.

12.2 Persistence and degradability

Biodegradability 2,2',2''-nitrilotriethanol:
 Readily biodegradable.; > 60 %; 5 d; aerobic; CO2 Evolution Test (literature value)

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12.3 Bioaccumulative potential

Bioaccumulation 2,2',2''-nitrilotriethanol:
Cyprinus carpio (Carp); 42 d; 0.25 mg/l; Bioconcentration factor (BCF): 3.9; OECD Test Guideline 305C (literature value)
Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility 2,2',2''-nitrilotriethanol:
Adsorption/Soil; Medium: Soil; Koc: 10; log Koc: 1; calculated (literature value)
Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Results of PBT assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Results of PBT assessment 2,2',2''-nitrilotriethanol:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

General advice 2,2',2''-nitrilotriethanol:
None known.

Endocrine disrupting potential The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product Can be incinerated, when in compliance with local regulations.

Contaminated packaging Empty remaining contents.

Waste Code A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.
The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

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14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type	3
Pollution category	Z
Remarks	MARPOL NAME: Triethanolamine

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable
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NOTIFICATION STATUS

Australian Inventory of Industrial Chemicals	ZAU_AIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

2,2',2"-nitrilotriethanol

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
3. Composition/information on ingredients

Further information:

The information provided in this Safety Data Sheet is correct to the best of our

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knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

2,2',2''-nitrilotriethanol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000117_EN_01.pdf