

**TRIETHANOLAMIN REIN**

Version: 6.11

Revision Date 2019/04/02

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

Trade name	TRIETHANOLAMIN REIN
INCI	Triethanolamine
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	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 address	msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+ 49 (0) 23 65 - 49 22 32
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Label elements**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards**

No hazards to be specially mentioned.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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

**CHEMICAL CHARACTERIZATION****2,2',2''-Nitrilotriethanol****component type:** Active ingredient**EC-No.:** 203-049-8**Index-No.:****CAS-No.:** 102-71-6**REACH No.:** 01-2119486482-31-0002**Substance name (REACH / CLP):** 2,2',2''-nitrilotriethanol**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**

No dangerous ingredients according to Regulation (EC) No. 1907/2006

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

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

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water, Foam, Dry powder, Carbon dioxide (CO2)
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	In case of fire hazardous decomposition products may be produced such as: Nitrogen oxides (NOx)
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	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**

<b>Personal precautions</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Special precautions</b>	Forms slippery/greasy layers with water.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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**6.3 Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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**6.4 Reference to other sections**

For personal protection see section 8.

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

<b>Advice on safe handling</b>	No special technical protective measures required.
<b>Advice on protection against fire and explosion</b>	Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Requirements for storage areas and containers</b>	Keep container tightly closed.
<b>Storage class (TRGS 510)</b>	10-13: German Storage Class 10 to 13
<b>Other data</b>	Protect from frost, heat and sunlight.
<b>container material</b>	unsuitable materials: Light metals/light metal alloys, copper/copper alloys

**7.3 Specific end use(s)**

<b>Specific use(s)</b>	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

No data available

###### 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	6.3 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	5 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects	5 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	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	3.1 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	1.25 mg/m3	
	Oral, long-term exposure - systemic effects	13 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / Not applicable
Inhalation, long-term exposure - local effects	1.25 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	
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

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	<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> <p><b>gloves suitable for permanent contact:</b>  Material: Nitrile rubber/nitrile latex  Break through time: &gt;= 480 min  Layer thickness: 0.35 mm</p> <p>Material: butyl-rubber  Break through time: &gt;= 480 min  Layer thickness: 0.5 mm</p>
<b>Eye protection</b>	Safety glasses
<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	General industrial hygiene practice.
<b>Protective measures</b>	No special protective equipment required.

### ENVIRONMENTAL EXPOSURE CONTROLS

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**General advice**

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

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

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY**

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### 10.1 Reactivity

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

### 10.2 Chemical stability

**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:  
Obtaining data is technically impossible.

**Acute dermal toxicity** 2,2',2''-Nitrilotriethanol:  
LD50 Rabbit: > 2,000 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.

**Human experience -Skin contact** 2,2',2''-Nitrilotriethanol:  
Redness  
(literature value)  
not irritating

#### Serious eye damage/eye irritation

**Eye irritation** 2,2',2''-Nitrilotriethanol:

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Rabbit: not irritating; OECD Test Guideline 405 (literature value)  
Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

#### Sensitisation

2,2',2"-Nitrilotriethanol:  
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value)  
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:  
Two-generation reproductive toxicity: Rat; Oral  
NOAEL ((parents)): 300 mg/kg (based on body weight and day)  
NOAEL (F1): 1,000 mg/kg (based on body weight and day)  
NOAEL (F2): 1,000 mg/kg (based on body weight and day); OECD Test Guideline 416 (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:  
Rat; Oral  
NOAEL: 450 mg/kg (based on body weight and day)  
NOAEL (pregnant female): 120 mg/kg (based on body weight and day); OECD Test Guideline 414 (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.



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### STOT - repeated exposure

<b>Remarks</b>	2,2',2''-Nitrilotriethanol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	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)  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

<b>Aspiration toxicity</b>	2,2',2''-Nitrilotriethanol: Not applicable
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<b>Toxicological information</b>	2,2',2''-Nitrilotriethanol: Toxicokinetics Absorption through skin is possible. The substance is metabolised and excreted. (literature value)
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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	2,2',2''-Nitrilotriethanol: LC50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; flow-through test (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	2,2',2''-Nitrilotriethanol: study scientifically unjustified
<b>Toxicity to daphnia and other aquatic invertebrates</b>	2,2',2''-Nitrilotriethanol: EC50 (48 h) Ceriodaphnia sp.: > 100 mg/l ; static test (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	2,2',2''-Nitrilotriethanol: NOEC (21 d) Daphnia magna (Water flea): 16 mg/l; mortality; semi-static test; (literature value)
<b>Toxicity to aquatic plants</b>	2,2',2''-Nitrilotriethanol: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; (literature value)
<b>Toxicity to bacteria</b>	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)
<b>Toxicity to soil dwelling organisms</b>	2,2',2''-Nitrilotriethanol: The study is not necessary. Justification:

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	Readily biodegradable. Direct exposure to soil is unlikely.
<b>Toxicity to terrestrial flora</b>	2,2',2''-Nitrilotriethanol: The study is not necessary. Justification: Readily biodegradable. Direct exposure to soil is unlikely.
<b>Toxicity for other terrestrial non-mammalian fauna</b>	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.
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	2,2',2''-Nitrilotriethanol: Readily biodegradable.; > 60 %; 5 d; aerobic; CO2 Evolution Test (literature value)
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	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.
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	2,2',2''-Nitrilotriethanol: Adsorption/Soil; Medium: Soil; Koc: 10; log Koc: 1; calculated (literature value) Highly mobile in soils
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	2,2',2''-Nitrilotriethanol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	2,2',2''-Nitrilotriethanol: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>Contaminated packaging</b>	Empty remaining contents.
<b>waste code of the European Union: EWC</b>	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.

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## 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

### 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

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## 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

#### NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	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

**Safety datasheet sections which have been updated:**

7. Handling and storage

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## Further information:

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

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000117\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000117_EN_01.pdf)



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