

# Safety Data Sheet

## Trilon® A 92 R

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Version: 3.0

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(30043433/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Trilon® A 92 R

#### Recommended use of the chemical and restriction on use

Recommended use\*: Chelate

Suitable for use in industrial sector: chemical industry

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Synonyms: TRISODIUM NITRILOTRIACETATE

### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Carc.	2	Carcinogenicity
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Combustible Dust	Combustible Dust (1)	Combustible Dust

#### Label elements

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Pictogram:



Signal Word:  
Warning

Hazard Statement:

	May form combustible dust concentration in air.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % dermal

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### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
5064-31-3	75.0 - 100.0%	trisodium nitrilotriacetate

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### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, gastrointestinal complaints, kidney damage

#### Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

#### Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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### 6. Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Information regarding personal protective measures see, section 8.

#### **Environmental precautions**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

#### **Methods and material for containment and cleaning up**

For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Contain with dust binding material and dispose of.  
Dispose of absorbed material in accordance with regulations.

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### 7. Handling and Storage

#### **Precautions for safe handling**

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

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

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

#### **Personal protective equipment**

##### **Respiratory protection:**

Breathing protection if dusts are formed. Wear a NIOSH approved (or equivalent) particulate respirator if ventilation is inadequate to control dust.

##### **Hand protection:**

Chemical resistant protective gloves

##### **Eye protection:**

Tightly fitting safety goggles (chemical goggles) and face shield.

##### **General safety and hygiene measures:**

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

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### 9. Physical and Chemical Properties

Form:	powder	
Odour:	product specific	
Colour:	white	
pH value:	10.5 - 11.5 ( 10 g/l, 23 °C)	(DIN 19268)
Melting point:	The substance / product decomposes therefore not determined.	
decomposition point:	> 150 °C The substance / product decomposes.	
Flash point:	Study scientifically not justified.	
Flammability:	not readily ignited	
Vapour pressure:	6 hPa (approx. 25 °C) contains water, Literature data.	(measured)
Density:	Study does not need to be conducted.	
Bulk density:	810 - 930 kg/m <sup>3</sup>	
Vapour density:	The product is a non-volatile solid.	
Partitioning coefficient n-octanol/water (log Pow):	-13.2 ( 20 °C)	(calculated)
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 300 °C	
Particle size:	approx. D50 150 µm	
Solubility in water:	approx. 500 g/l	
Solubility (qualitative):	soluble solvent(s): polar solvents,	
Evaporation rate:	The product is a non-volatile solid.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

### 10. Stability and Reactivity

#### Reactivity

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
not fire-propagating

#### Chemical stability

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

#### Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

#### Conditions to avoid

Avoid humidity. Avoid dust formation.

#### Incompatible materials

amphoteric metals, light metals

#### Hazardous decomposition products

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Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 300 °C

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## 11. Toxicological information

### Primary routes of exposure

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

### Acute Toxicity/Effects

#### Oral

Type of value: LD50

Species: rat

Value: 1,000 - 2,000 mg/kg (BASF-Test)

#### Inhalation

Type of value: LC50

Species: rat

Value: > 5 mg/l

Exposure time: 4 h

An aerosol was tested.

No mortality was observed. Literature data.

#### Dermal

Type of value: LD50

Species: rabbit (male/female)

Value: > 10,000 mg/kg (other)

An aqueous solution was tested.

#### Irritation / corrosion

Assessment of irritating effects: Causes serious eye irritation. May cause irritations to the respiratory tract.

#### Skin

Species: rabbit

Result: non-irritant

Method: Draize test

#### Eye

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

#### Aspiration Hazard

Not relevant.

### Chronic Toxicity/Effects

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### Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion.

### Genetic toxicity

Genetic toxicity in vitro: Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: In long-term animal studies in which the substance was given in the drinking water in high doses, a carcinogenic effect was observed. In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was observed. A carcinogenic potential can essentially be excluded after a single or short-term exposure to the substance.

### *Information on: trisodium nitrilotriacetate*

*Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.*

*IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

### Teratogenicity

Assessment of teratogenicity: No data available.

## Symptoms of Exposure

Eye irritation, gastrointestinal complaints, kidney damage

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## 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 (96 h) > 100 mg/l, Pimephales promelas (APHA 1971, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

#### Aquatic invertebrates

EC50 (96 h) 10 - 100 mg/l, Gammarus sp. (Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

#### Aquatic plants

EC50 (72 h), algae

not determined

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

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static  
bacterium/EC50 (8 h): 3,200 - 5,600 mg/l  
The details of the toxic effect relate to the nominal concentration. Literature data.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### Persistence and degradability

#### Elimination information

90 - 100 % BOD of the ThOD (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C)

### Bioaccumulative potential

#### Assessment bioaccumulation potential

The product has not been tested.

#### Bioaccumulation potential

Bioconcentration factor: < 3 (96 h), *Brachydanio rerio* (measured)  
Does not significantly accumulate in organisms.

### Mobility in soil

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is not expected.

### Additional information

#### Sum parameter

Theoretical Oxygen Demand (ThOD): 524 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations.

### **Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: NA

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## 14. Transport Information

### Land transport

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USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### **Registration status:**

Chemical TSCA, US released / listed

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

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	67-56-1	Methanol
1000 LBS	75-07-0	acetaldehyde
100 LBS	7664-41-7; 50-00-0	ammonia; Formaldehyde
10 LBS	143-33-9	Sodium Cyanide

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

**WARNING:** This product can expose you to chemicals including FORMALDEHYDE (GAS), which is known to the State of California to cause cancer, and METHANOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

[Other Prop 65 components may be present in the product.]

#### **NFPA Hazard codes:**

Health: 2 Fire: 1 Reactivity: 0 Special:

#### **HMIS III rating**

Health: 2<sup>a</sup> Flammability: 1 Physical hazard: 0

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## 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2017/11/16

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