

Nitrilotriacetic acid**34539-25KG**

Version 1.2

Revision Date 08/17/2018

Print Date 10/17/2019

SECTION 1. IDENTIFICATION

Product name : Nitrilotriacetic acid

Number : 000000021975

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414
: Transportation (CHEMTREC): 1-800-424-9300 or
+1-703-527-3887
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : powder

Color : white

Odor : odourless

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Classification of the substance or mixture

Classification of the substance or mixture : Eye irritation, Category 2A
Carcinogenicity, Category 2

GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Warning

Hazard statements

: Causes serious eye irritation.
Suspected of causing cancer.

Precautionary statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

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Carcinogenicity

NTP: Nitrilotriacetic acid 139-13-9
Reasonably Anticipated to be a Human Carcinogen.

IARC: Nitrilotriacetic acid 139-13-9
Group 2B: Possibly carcinogenic to humans

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₆H₉NO₆

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Nitrilotriacetic acid	139-13-9	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air. Call a physician if irritation develops or persists.

Skin contact : After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.

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Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

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

Specific hazards during firefighting : Fire may cause evolution of:
nitrogen oxides (NO_x)
Carbon oxides

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid dust formation.
Ensure adequate ventilation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Environmental precautions : Do not flush into surface water.
Prevent further leakage or spillage if safe to do so.

Methods and materials for : Use mechanical handling equipment.

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containment and cleaning
upSweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.**SECTION 7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid exposure - obtain special instructions before use.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

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

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid exposure - obtain special instructions before use.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Latex gloves
Gloves must be inspected prior to use.

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- Replace when worn.
- Skin and body protection : Wear suitable protective equipment.
Wear as appropriate:
Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : powder
- Color : white
- Odor : odourless
- pH : 2.3 at , 20 °C
Note: Saturated solution
- Melting point (decomposition) : 242 °C
- Boiling point/boiling range : Note: no data available
- Flash point : Note: Not applicable
- Flammability : no data available

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Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapor pressure	: Note: no data available
Density	: 1.67 g/cm ³
Water solubility	: 1.5 g/l at 20 °C
Partition coefficient: n-octanol/water	: log Pow: ca. -3.81
Ignition temperature	: Note: Not applicable
Decomposition temperature	: Note: No decomposition if used as directed.
Molecular weight	: 191.14 g/mol
Bulk density	: ca. 700 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous	: None known.

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reactions

Conditions to avoid : Avoid dust formation.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Fire may cause evolution of:
nitrogen oxides (NO_x)
Carbon oxides**SECTION 11. TOXICOLOGICAL INFORMATION**Acute oral toxicity : LD50: > 6,400 mg/kg
Species: Rat

Acute inhalation toxicity : Note: Not classified due to data which are conclusive although insufficient for classification.

Acute dermal toxicity : LD50: > 10,000 mg/kg
Species: Rabbit
Test substance: REACH dossier "read-across"Skin irritation : Species: Rabbit
Result: No skin irritationEye irritation : Species: Rabbit
Result: Irritating to eyes.Sensitisation : Species: Guinea pig
Result: non-sensitizing
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 406

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Genotoxicity in vitro : Note: Not classified due to data which are conclusive although insufficient for classification.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : flow-through test
LC50: 114 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Test substance: REACH dossier "read-across"

Toxicity to daphnia and other aquatic invertebrates : EC50: > 560 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Test substance: REACH dossier "read-across"

Toxicity to algae : static test
EC50: > 100 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Test substance: REACH dossier "read-across"

Elimination information (persistence and degradability)

Bioaccumulation : Note: Bioaccumulation is unlikely.

Biodegradability : Note: Readily biodegradable.

Further information on ecology

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Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory

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Inventory (KECI)

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory


New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Nitrilotriacetic acid 139-13-9

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

California Prop. 65 :  **WARNING:** This product can expose you to chemicals, listed below, known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Massachusetts RTK : Nitrilotriacetic acid 139-13-9

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New Jersey RTK : Nitrilotriacetic acid 139-13-9**Pennsylvania RTK** : Nitrilotriacetic acid 139-13-9**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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