

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the substance/mixture and of the company/undertaking:

Product identifier:

Product name: NTA Liquid 38%
REACH Registration Number: 01-2119519239-36-XXXX
EC No.: 225-768-6
CAS No.: 5064-31-3

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification -67/548/EEC: Xn; R40 Xi; R36
Symbols: Xn: Harmful.
Main hazards: Irritating to eyes. Limited evidence of a carcinogenic effect.
Classification – EC 1272/2008: Met. Corr. 1: H290; Eye Irrit. 2: H319; Carc. 2: H351.
Met. Corr. 1: H290; Eye Irrit. 2: H319; Carc. 2: H351.

Label elements:

Hazard pictograms:



Signal Word: Warning.

Hazard Statement: Met. Corr. 1: H290 - May be corrosive to metals.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Carc. 2: H351 - Suspected of causing cancer.

SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 2

Precautionary Statement: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

Label elements: P234 - Keep only in original container.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.

Precautionary Statement:

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+P313 - IF exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P390 - Absorb spillage to prevent material damage.

Precautionary Statement:

Storage: P405 - Store locked up.
P406 - Store in corrosive resistant/ container with a resistant inner liner.

Precautionary Statement:

Disposal: P501 - Dispose of contents/container to hazardous or special waste collection point.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

67/548/EEC / 1999/45/EC:

Chemical Name	EC No.	CAS No.	REACH Registration Number	Conc. (%w/w)	Classification
NTA Liquid 38%	225-768-6	5064-31-3	01-2119519239-36-XXXX	38%	Xn; R40 Xi; R36

EC 1272/2008:

Chemical Name	EC No.	CAS No.	REACH Registration Number	Conc. (%w/w)	Classification
NTA Liquid 38%	225-768-6	5064-31-3	01-2119519239-36-XXXX		Met. Corr. 1: H290; Eye Irrit. 2: H319; Carc. 2: H351

Mixtures:

HAZARDOUS INGREDIENTS (GHS): Trisodium Nitrilotriacetate

Content (W/W): 40%

EC-Number: 225-768-6

CAS Number: 5064-31-3

REACH reg no: 01-2119519239-36-XXXX

Acute tox. 4 (oral)

Eye dam./irr.2

Carc.2

H319, H302, H351

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SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 3

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.
Eye contact:	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact:	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion:	Harmful if swallowed. Ingestion may cause nausea and vomiting. If swallowed, seek medical advice immediately and show this container or label. Immediately rinse mouth and then drink 200-300 ml water.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Use as appropriate: Water spray, dry powder, foam.
Special hazards arising from the substance or mixture:	Harmful vapours, evolution of fumes/fog may be formed in fire conditions.
Advice for firefighters:	Self-contained breathing apparatus. Wear protective clothing. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation of the working area. Wear suitable protective clothing. Wear suitable protective equipment.

Environmental precautions:	Contain contaminated water /firefighting water. Do not discharge into drains / surface waters / groundwater.
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Methods and material for containment and cleaning up:

For large amounts:	Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.
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7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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Conditions for safe storage, including any incompatibilities:

Keep in a cool, dry, well-ventilated area. Keep containers tightly closed.

Suitable packaging:	Stainless steel, 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), Low density polyethylene (LPDE), glass.
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SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 4

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Hazardous Components with PNEC:

5064-31-3: Trisodium Nitrilotriacetate:

Freshwater:	0.93 mg/l
Marine water:	0.093 mg/l
Intermittent release:	0.815 mg/l
STP:	540 mg/l
Sediment: (freshwater):	3.64 mg/kg
Sediment: (marine water);	0.364 mg/kg
Soil:	0.182 mg/kg
Oral (secondary poisoning):	0.2 mg/kg

Hazardous Components with DNEL:

5064-31-3- Trisodium Nitrilotriacetate:

Worker:	Short-term exposure - systemic and local effects, Inhalation: 5.25mg/m ³
Worker:	Long-term exposure - systemic and local effects, Inhalation: 3.5mg/m ³
Consumer:	Sort-term exposure - systemic and local effects, Inhalation: 1.75 mg/m ³
Consumer:	Long-term exposure - systemic effects, oral: 0.5 mg/kg bw/day

Exposure controls:

Appropriate engineering:	Controls Ensure adequate ventilation of the working area.
Individual protection:	Measures Wear chemical protective clothing.

Exposure controls:

Eye/face protection:	Approved safety goggles.
Skin protection:	Chemical resistant gloves (PVC).
Hand protection:	Chemical resistant gloves (PVC).
Respiratory protection:	Self-contained breathing apparatus. Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Yellow
Odour:	Characteristic
Flash point:	100°C
Initial boiling point:	100°C
Autoignition temperature:	200°C
Vapour pressure:	24
Partition coefficient:	-13.2 log P
Viscosity:	30 mPas (Cone & Plate)
pH:	10.5 - 12

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SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 5

Other information:

Conductivity:	Data not available.
Specific gravity:	Data not available.
Bulk Density:	Data not available.
Surface tension:	Data not available.
Softening point:	Data not available.
Pour point:	Data not available.
Sublimation Point:	Data not available.
Gas group:	Data not available.

10. STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions under ordinary conditions of use and storage.
Corrosion to metals:	Corrosive effect on aluminium.

Chemical stability:	Stable under normal conditions.
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Possibility of hazardous reactions: No hazardous reactions under ordinary conditions of use and storage.

Incompatible materials:

Avoid contact with:	Amphoteric metals, light metals.
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Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Skin corrosion/irritation:	Non-irritant - rabbit.
Serious eye damage/irritation:	Irritant - rabbit.
Respiratory or skin Sensitisation:	Non-sensitizing, (Guinea pig).
Germ cell mutagenicity:	No mutagenic effects reported.
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.
Reproductive toxicity:	The test result of animal studies gave no indication of a fertility impairing effect.
Repeated or prolonged exposure:	Information on Trisodium nitrilotriacetate: The substance may cause damage to the kidney after repeated ingestion.

Toxicological Information:

NTA Liquid 38% :

Inhalation:	Rat LC50/4 h: > 5 mg/l
Oral:	Rat LD50: 3900 mg/kg
Dermal:	Rabbit LD50: > 10000 mg/kg

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SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 6

12. ECOLOGICAL INFORMATION

Toxicity:

NTA Liquid 38%: Fish LC50/96h: 100.000 mg/l

Bioaccumulative potential:

Partition coefficient: NTA Liquid 38% -13.2 log P

Further information:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on Trisodium Nitrilotriacetate:

Aquatic invertebrates: EC50 (96h): 98 mg/l, Gammarus sp

Aquatic plants: Ec50 (72h)> 91.5 mg/l (growth rate), Scenedesmus subspicatus

Microorganisms / Effect on activated sludge: EC50 (8h): 3200-5600mg/l, Pseudomonas fluorescences (static)

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

13. DISPOSAL CONSIDERATIONS

General information:

Dispose of in compliance with all local and national regulations.

This material and its container must be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

UN number:

UN3267

UN proper shipping name:

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Transport hazard class(es):

ADR/RID: 8

Subsidiary risk —

IMDG: 8

Subsidiary risk —

IATA: 8

Subsidiary risk —



Packing group:

III

[cont...]

SAFETY DATA SHEET

NTA 38% Liquid

Issued: 14/08/2023

Page 7

Environmental hazards: No

Marine pollutant: No

ADR/RID:

Hazard ID: 80

Tunnel Category: (E)

IMDG:

EmS Code: F-A S-B

IATA:

Packing Instruction (Cargo): 856

Maximum quantity: 60 L

Packing Instruction (Passenger): 852

Maximum quantity: 5 L

15. REGULATORY INFORMATION

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.