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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 04.05.2021

Version number 1

Revision: 04.05.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Product name: N-(2-Nitrophenyl)phosphoric triamide

- · Part number: DRE-C15598350
- · CAS Number: 874819-71-3
- · ELINCS Number:
- 477-690-9

· 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Reference material for laboratory use only
- \cdot 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: LGC Limited **Oueens** Road Teddington Middlesex TW11 0LY UNITED KINGDOM

• Further information obtainable from: Product safety department eMail: sds-request@lgcgroup.com • 1.4 Emergency telephone number: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: 1-800-424-9300 USA & Canada Rest of the world +1 703-741-5970

Tel:+44(0)2089437000 Fax :+44 (0) 20 8943 2767 eMail: gb@lgcstandards.com Web : www.lgcstandards.com

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

health hazard

H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

Repr. 1B

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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Product name: N-(2-Nitrophenyl)phosphoric triamide

· Hazard pictograms



· Signal word Danger

· Hazard statements

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- *P273 Avoid release to the environment.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- *P308+P313 IF exposed or concerned: Get medical advice/attention.*
- P405 Store locked up.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:
- Restricted to professional users.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

- · CAS No. Description
- 874819-71-3 N-(2-Nitrophenyl)phosphoric triamide
- · Identification number(s) None
- · ELINCS Number: 477-690-9
- · RTECS: -
- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.

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- · After swallowing: Rinse mouth. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- $No\ further\ relevant\ information\ available.$

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to item 13.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.
- Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- Information about storage in one common storage facility: Store away from foodstuffs.
- \cdot Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: Lists used were valid at the time of SDS preparation.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- · Material of gloves Butyl rubber, BR
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Physical state
- · Colour:
- Odour:
- Odour threshold:

Solid Yellow Characteristic Not determined.

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Melting point/freezing point:	195.4 °C	
Boiling point or initial boiling point and boiling		
range	Not determined.	
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
pH	Not applicable.	
Viscosity:		
Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
Solubility	DMSO (Slightly), Methanol (Slightly)	
water at 20 °C:	1.394 g/l	
Partition coefficient n-octanol/water (log value)	0.51 Log Pow	
Vapour pressure:	Not applicable.	
Density and/or relative density		
Density at 20 °C:	1.558 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
0.2 Other information		
9.2 Other information		
Appearance: Form:	Crystalline	
Important information on protection of health an		
environment, and on safety.	u	
Ignition temperature:	Not determined	
Explosive properties:	Not determined.	
Change in condition	Noi acterminea.	
Evaporation rate	Not applicable.	
	Noi applicable.	
Information with regard to physical hazard classe	25	
Explosives	Not applicable	
Flammable gases	Not applicable	
Aerosols	Not applicable	
Oxidising gases	Not applicable	
Gases under pressure	Not applicable	
Flammable liquids	Not applicable	
Flammable solids	Not applicable	
r lammable sollas		
	Not applicable	
Self-reactive substances and mixtures	Not applicable Not applicable	
Self-reactive substances and mixtures Pyrophoric liquids	Not applicable	
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Not applicable Not applicable	
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Not applicable	
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Not applicable Not applicable	

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Product name: N-(2-Nitrophenyl)phosphoric triamide

- · Oxidising solids
- · Organic peroxides
- · Corrosive to metals
- · Desensitised explosives

Not applicable Not applicable Not applicable Not applicable

SECTION 10: Stability and reactivity

· 10.1 Reactivity

- Stable under normal conditions.
- No further relevant information available.
- · 10.2 Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided:
- Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 *mg/kg* (*rat*)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Reproductive toxicity May damage fertility or the unborn child.
- · STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Repr. 1B
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

EC50/48 h 100 mg/l (daphnia)

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EC50/72h 51.4 mg/l (Algae)

EC50/96h >100 mg/l (fish)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Dispose of in accordance with national regulations.

14.1 UN number or ID number		
ADR, IMDG, IATA	Not applicable	
ADR, IMDG, IATA	Not applicable	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Not applicable	
14.4 Packing group		
ADR, IMDG, IATA	Not applicable	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	



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· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable. Not applicable

· UN "Model Regulation":

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Repr. 1B: Reproductive toxicity Category 1B
- STOT RE 2: Specific target organ toxicity (repeated exposure) Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment long-term aquatic hazard Category 3
- · Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.