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MATERIAL SAFETY DATA SHEET

NADPH

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

1.1 Product identifiers:

Product name: NADPH

Product number: 0002646711

Brand: Discovery

Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later

Registration deadline.

Cas No.: 2646-71-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: Discovery Fine Chemicals Ltd
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1.4 Emergency telephone : +44 (0)7912 646956

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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

2.3 Other hazards

None

Precautionary Statements

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

NADPH

Formula: $C_{21}H_{26}N_7Na_4O_{17}P_3 \cdot xH_2O$

Molecular Weight: 833.35 g/mol

Cas No: 2646-71-1

EC No: 220-163-3

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

If inhaled - If breathed in, move person into fresh air.

In case of skin contact – Wash off with soap and plenty of water.

In case of eye contact - Rinse eyes with plenty of water and remove contact lenses.

If swallowed

Drink water. Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed – the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11).

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media – use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO₂)

Unsuitable extinguishing media – for this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides. Nitrogen oxides (NO_x). Sulfur oxides. Sodium oxides. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters – wearing self-contained breathing apparatus.

5.4 Further information - no data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours or mist or gas.

6.2 Environmental precautions – Do not let product enter drain.

6.3 Methods and materials for containment and cleaning up – sweep up and shovel. Keep in closed containers.

6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

See section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s) - no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls - Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection - Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection - Handle with gloves. Gloves must be inspected prior to use.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril®

Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril®

Body Protection – Choose appropriate body protection. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection – respiratory protection is not required. Dust masks type P1 (EU EN 143) may be used for a higher level of protection. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance - Form: Powder, Colour: White to off-white
 - b) Odour - no data available
 - c) Odour Threshold - no data available
 - d) Melting point/freezing point – no data available
 - e) Initial boiling point and boiling range - no data available
 - f) Flammability (solid, gas) - no data available
 - g) Upper/lower flammability or explosive limits - no data available
 - h) Flash point – not applicable
 - i) Autoignition temperature - no data available
 - j) Decomposition temperature - no data available
 - k) pH - no data available
 - l) Viscosity – viscosity,kinematic: no data available
- viscosity dynamic: no data available
 - m) Water solubility – no data available
 - n) Partition coefficient: no data available
 - o) Vapour pressure - no data available
 - p) Density - no data available
Relative density – no data available
 - q) Relative vapour density - no data available
 - r) Particle characteristics - no data available
 - s) Explosive properties – no data available
 - t) Oxidizing properties - no data available
- 9.2 Other safety information - no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

stable under standard storage conditions

10.3 Possibility of hazardous reactions

Violent reactions possible with oxidising agents

10.4 Conditions to avoid

Heat, flame and sparks.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral no data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

no data available.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**12.1 Toxicity – no data available****12.2 Persistence and degradability - no data available****12.3 Bio-accumulative potential - no data available****12.4 Mobility in soil - no data available****12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Waste material may be offered to a licensed disposal company. contaminated packaging may be disposed of as unused product.

14. TRANSPORT INFORMATION**14.1 UN number**

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

14.6 Special precautions for user**Further Information**

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Precautionary Statements

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

Further information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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APPENDIX

ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ALARP As low as is reasonably practicable

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulations

COSHH Control of Substances Hazardous to Health EC Number European Community Number

EC50 Effective Concentration 50%

ECHA European Chemicals Agency

ELINCS European List of Notified Chemical Substances

EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE

Health & Safety Executive UK

IATA International Air Transport Association

IM Intramuscular

IMDG The International Maritime Dangerous Goods Code

IP Intraperitoneal

IV Intravascular

LD50 Lethal Dose 50%

LOEC Lowest Observable Effective Concentration

LTEL Long Term Exposure Limit

NOEC No Observable Effective Concentration

OECD Organisation for Economic Cooperations and Development

OSHA European Agency for Safety and Health at work

PBT Persistent Bioaccumulative and Toxic substance

PPE Personal Protective Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations Concerning the International Carriage of Dangerous Goods by Rail

SC Subcutaneous

SDS Safety Data Sheet

SIEF Substance Information Exchange Forum

STEL Short Term Exposure Limit

STOT (RE) Specific Target Organ Toxicity – repeated exposure

STOT (SE) Specific Target Organ Toxicity – single exposure

SVHC Substance of Very High Concern

VOC Volatile Organic Compounds

vPvB Very Persistent and Very Bioaccumulative
WEL Workplace Exposure Limits