

Mascia Brunelli S.p.A.

NAGP68905
G6PDH-GLUCOSE 6 PHOSPHATE DEHYDROGENASE

Scheda di Dati di Sicurezza / Safety Data Sheet

Conforme all'Allegato II del REACH - Regolamento (UE) 2020/878
According to Annex II to REACH - Regulation 2020/878

Codice / Code: NAGP68905

Nome prodotto / Product name: G6PDH-GLUCOSE 6 PHOSPHATE DEHYDROGENASE

Descrizione d'uso / Intended use: Determinazione quantitativa cinetica UV del G6PDH su sangue intero/G6PDH quantitative kinetic UV assay on whole blood

Fornitore / Supplier: Mascia Brunelli S.p.A.
Viale Monza 272, 20128 Milano, Italia.
Tel.: 0039 02 252091
E-mail: mktg@masciabrunelli.it

Componenti del kit / Kit components:

1. R1 buffer
2. R2 NAPD
3. R3 G6P



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PHOSPHATE DEHYDROGENASE**

SAFETY DATA SHEET

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

1.1 Product identifiers

Code: **NAGP68905**
Product name: **G6PDH-GLUCOSE 6 PHOSPHATE DEHYDROGENASE_R1 (Reagent)**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use: Reagent for in-vitro diagnostic

1.3 Details of the supplier of the safety data sheet

Name: **Mascia Brunelli S.p.A.**
Full address: **Viale Monza, 272**
District and Country: **20128 Milano (Milano)**
Italia

Tel. **0039 02 252091**

e-mail address of the competent person

responsible for the Safety Data Sheet: **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to:
NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: -

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements: --

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

**NAGP68905 – G6PDH-GLUCOSE 6
PHOSPHATE DEHYDROGENASE****3.2 Mixtures**

Refer to paragraph 16 for full text of hazard statements.

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Sodium azide		
CAS 26628-22-8	x < 0,1%	Acute Tox 2, H300
EC 247-852-1		Acute Tox 1, H310
REACH – No.: 01-2119457019-37-XXXX		Acute Tox 2, H330
		STOT RE 2, H373
INDEX 011-004-00-7		Aquatic acute 1, H400
		Aquatic chronic 1, H410
		Acute Tox. Factor M=1
		Chronic Tox Factor M=1
		ATE oral = 27,0 mg/kg
		ATE dermal > 20,0 mg/kg
		ATE inhal > 0,5 mg/l/4 h

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation: air the area. Immediately move the patient from the contaminated area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct skin contact (of the pure product): wash thoroughly with soap and flushing water.

Direct eye contact (of pure product): wash immediately with plenty of water for at least 10 minutes.

Ingestion: not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

4.2. Most important symptoms and effects, both acute and delayed

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Fire fighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Water jets. Use water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (fluobrene, solkan 123, NAF, etc.) are used. Cool containers with jets of water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: leave the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For emergency responders: Wear gloves and protective clothing. Eliminate all unguarded flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand. If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities. Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Collect the product for reuse, if possible, or for disposal. If possible, absorb it with inert material. Prevent it from entering the sewage system.

6.3.2 For cleanup. After collection, wash the affected area and materials with water.

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors.
Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with care.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium azide:
TLV(Ceiling value): as hydrazoic acid vapor 0.11 ppm; as sodium azide 0.29 mg/m³ (ACGIH 1996). TWA 0.1 mg/m³
MAK 0.2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:
Professional uses:
No specific controls provided

Individual protective measures:



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HAND PROTECTION

None required for normal use.

SKIN PROTECTION

Wear normal work clothing.

EYE PROTECTION

None required for normal use.

RESPIRATORY PROTECTION

None required for normal use.

THERMAL HAZARDS

No hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS

Related to contained substances:

Sodium azide:

Eye/face protection: Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as NIOSH (US) or EN 166 (EU) Safety glasses.

Physical protection: Protective clothing

Respiratory protection:

Required when dust is generated

Our recommendations on respiratory protection filtering are based on the following standards: DIN EN 143, DIN 14387 and other associated standards related to the respiratory protection system used.

Suggested filter type: filter type P3

The contractor must ensure that maintenance, cleaning and inspections of protective equipment are carried out according to the manufacturer's instructions. These measures must be properly documented.

Environmental exposure control

Do not allow product to enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colorless	
Odour	odorless	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	Not determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
pH	Not determined	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Not determined	



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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Related to contained substances:

Sodium azide:

in contact with acids releases very toxic gases.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Related to contained substances:

Sodium azide:

An explosion occurred during concentration in rotary evaporator of a mixture of sodium azide, methylene chloride, dimethyl sulfoxide and sulfuric acid.

Strong heating (decomposition).

Exposure to moisture.

No information available.

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulphide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulphide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

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

ATE(mix) oral = 1.800.000,0 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met
- (b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met
- (c) severe ocular damage/eye irritation: based on available data the classification criteria are not met
- (d) respiratory or skin sensitization: based on available data the classification criteria are not met
- (e) germ cell mutagenicity: based on available data the classification criteria are not met
- (f) carcinogenicity: based on available data the classification criteria are not met
- (g) reproductive toxicity: based on available data the classification criteria are not met
- (h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Health hazards:

Contact with eyes: accidental contact with the eyes may cause irritation.



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Contact with skin: the product is not an irritant. Repeated and prolonged direct contact can dehydrate and irritate the skin and cause dermatitis in some cases.

Ingestion: ingestion may cause product mucosal irritation of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.

Inhalation: prolonged Exposure to vapors or mists of product may cause irritation to the respiratory tract.

Related to contained substances:

Sodium azide:

LD50 Oral (rat) (mg/kg body weight) = 27

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 20

LC50 Inhalation (rat) of vapor/dust/aerosol/smoke (mg/l/4h) or gas (ppmV/4h) > 0.52

11.2. Information on other hazards

Information not available

SECTION 12: Ecological information

12.1. Toxicity

Related to contained substances:

Sodium azide:

Fish toxicity Continuous flow test CL50 - *Oncorhynchus mykiss* (Rainbow trout) - 2.75 mg/l - 96 h (OECD Test Guideline 203).

Algae toxicity Static test CE50r - *Pseudokirchneriella subcapitata* - 0.35 mg/l - 96 h (OECD Test Guideline 201)

Toxicity to bacteria

C(E)L50 (mg/l) = 0.7

Use according to good working practices, avoiding dispersion of the product into the environment.

12.2. Persistence and degradability

Related to contained substances:

Sodium azide (sodium azide):

Methods for determining biological degradability are not applicable to non-organic substances.

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Information not available

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Operate according to current local or national regulations.



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SECTION 14: Transport information

14.1. UN number or ID number

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

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

D.Lgs 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances), D.Lgs 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations), D.Lgs 81/08 (Consolidated text on the protection of health and safety in the workplace), D. M. 03/04/2007 (Implementation of Directive No. 2006/8/EC), Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 790/2009, Legislative Decree 105/2015 (Seveso Ter Directive), Regulation (EU) 2019/1021, Regulation (EU) 2020/878.

Substances on Candidate List (art.59 REACH).

Based on available data, there are no SVHC substances present.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16: Other information

Description of the hazard statements exposed to point 3

H300 = Fatal if swallowed.

H310 = Fatal in contact with skin.

H330 = Fatal if inhaled.

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

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

No hazard to report. Classification procedure: Calculation method



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GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EC) 758/2013 of the European Parliament
 4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 6. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 7. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 8. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 9. Regulation (EU) 517/2013 of Council
 10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 12. Regulation (EU) 2015/491 of the European Parliament
 13. Regulation (EU) No. 1297/2014 of the Commission
 14. Regulation (EC) 528/2012 of the European Parliament and subsequent updates
 15. Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index.
 - Handling Chemical Safety
 - Niosh – Registry of Toxic Effects of Chemical Substances
 - INRS - Fiche Toxicologique
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This SDS replaces and cancels all previous ones.



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PHOSPHATE DEHYDROGENASE**

SAFETY DATA SHEET

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

1.1 Product identifiers

Code: **NAGP68905**
Product name: **G6PDH-GLUCOSE 6 PHOSPHATE DEHYDROGENASE_R2 (Reagent)**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use: Reagent for in-vitro diagnostic

1.3 Details of the supplier of the safety data sheet

Name: **Mascia Brunelli S.p.A.**
Full address: **Viale Monza, 272**
District and Country: **20128 Milano (Milano)**
Italia

Tel. **0039 02 252091**

e-mail address of the competent person

responsible for the Safety Data Sheet: **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to:
NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication: -

Acute Tox, category 4	H302	Harmful is swallowed.
Acute Tox, category 3	H311	Toxic in contact with skin.
Aquatic Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



GHS06



GHS09

Signal words: **Danger**

Hazard statements:

H302	Harmful is swallowed.
H311	Toxic in contact with skin.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

EUH032	Contact with acids liberates very toxic gas.
EUH208	Contains Maleimide. May produce an allergic reaction.



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Precautionary statements:

P264	Wash...thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: wash with plenty of water/...
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P321	Specific treatment (see ...on this label).
P330	Rinse mouth.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store blocked up.
P501	Dispose of contents/container to.....

Contains: sodium azide, Maleimide

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements.

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Maleimide		
CAS 541-59-3	$0,1\% \leq x < 1\%$	Acute Tox. 2, H300
EC 208-787-4		Skin Corr. 1B, H314
REACH – No.: --		Skin Sens. 1, H317
		Eye Dam. 1, H318
		ATE oral = 7,8 mg/kg

Sodium azide

CAS 26628-22-8	$1\% \leq x < 5\%$	Acute Tox 2, H300
EC 247-852-1		Acute Tox 1, H310
REACH – No.: 01-2119457019-37-XXXX		Acute Tox 2, H330
		STOT RE 2, H373
INDEX 011-004-00-7		Aquatic acute 1, H400
		Aquatic chronic 1, H410
		Acute Tox. Factor M=1
		Chronic Tox Factor M=1
		ATE oral = 27,0 mg/kg
		ATE dermal > 20,0 mg/kg
		ATE inhal > 0,5 mg/l/4 h



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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: air the area. Move immediately the contaminated patient from the area and keep him at rest in a well-ventilated area. CALL A PHYSICIAN. If breathing has stopped, give artificial respiration.

Direct contact with skin (of the pure product): take contaminated clothing immediately off. Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product. Warning: this product is toxic to skin contact. Consult a physician.

Direct eye contact (of pure product): do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion: the product is harmful and can cause irreversible damages even following a single exposure if swallowed. Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Water jets. Use water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (fluobrene, solkan 123, NAF, etc.) are used. Cool containers with jets of water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: leave the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For emergency responders: Wear gloves and protective clothing. Eliminate all unguarded flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills. Inform the competent authorities.

Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Rapidly recover the product, wear a mask and protective clothing. Recover the product for reuse, if possible, or the removal.

6.3.2 For cleanup. After wiping up, wash with water the area and materials involved.



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6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear protective gloves/protective clothing/eye protection/face protection.
At work do not eat or drink.
Do not eat, drink or smoke when using this product.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with care.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium azide:
TLV(Ceiling value): as hydrazoic acid vapor 0.11 ppm; as sodium azide 0.29 mg/m³ (ACGIH 1996). TWA 0.1 mg/m³
MAK 0.2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:
Professional uses:
No specific controls provided



Individual protective measures:

HAND PROTECTION

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

SKIN PROTECTION

When handling the pure product wear full protective skin clothing.

EYE/FACE PROTECTION

When handling the pure product use safety glasses (spectacles cage) (EN 166).

RESPIRATORY PROTECTION

None required for normal use.

THERMAL HAZARDS

No Hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS

Related to contained substances:

Sodium azide:

Eye/face protection: Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as NIOSH (US) or EN 166 (EU) Safety glasses.

Physical protection: Protective clothing

Respiratory protection:



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Required when dust is generated

Our recommendations on respiratory protection filtering are based on the following standards: DIN EN 143, DIN 14387 and other associated standards related to the respiratory protection system used.

Suggested filter type: filter type P3

The contractor must ensure that maintenance, cleaning and inspections of protective equipment are carried out according to the manufacturer's instructions. These measures must be properly documented.

Environmental exposure control

Do not allow product to enter drains.

Maleimide:

Eye/face protection: Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as NIOSH (US) or EN 166 (EU) safety glasses.

Skin protection:

Full contact: Material: Nitrile rubber minimum thickness: 0.11 mm; Permeation time: 480 min; Tested material: KCL 741 Dermatril® L

Spray contact: Material: Nitrile rubber minimum thickness: 0.11 mm; Permeation time: 480 min; Tested material: KCL 741 Dermatril® L

Physical protection: protective clothing

Respiratory protection:

Required when dust is generated.

Our recommendations on respiratory protection filtering are based on the following standards: DIN EN 143, DIN 14387 and other associated standards related to the respiratory protection system used.

Suggested filter type: filter type P3

Environmental exposure control

Do not allow product to enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	Lyophile, powder	
Colour	White	
Odour	odorless	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	Not available	
Auto-ignition temperature	Not available	
pH	Not available	
Kinematic viscosity	Not available	
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	Not available	
Relative vapour density	Not available	
Particle characteristics	Not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available



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9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Related to contained substances:

Sodium azide:

in contact with acids releases very toxic gases.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Related to contained substances:

Sodium azide:

An explosion occurred during concentration in rotary evaporator of a mixture of sodium azide, methylene chloride, dimethyl sulfoxide and sulfuric acid. Strong heating (decomposition).

Exposure to moisture.

No information available.

10.5. Incompatible materials

Nothing in particular.

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

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

ATE(mix) oral = 575,1 mg/kg

ATE(mix) dermal = 644,1 mg/kg

ATE(mix) inhal = 16,7 mg/l/4 h

(a) acute toxicity: harmful product: do not ingest and do not put in contact with skin

(b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met

(c) severe ocular damage/eye irritation: based on available data the classification criteria are not met

(d) respiratory or skin sensitization: based on available data the classification criteria are not met

(e) germ cell mutagenicity: based on available data the classification criteria are not met

(f) carcinogenicity: based on available data the classification criteria are not met

(g) reproductive toxicity: based on available data the classification criteria are not met

(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met

(i) specific target organ toxicity (STOT) repeated exposure: sodium azide – oral - May cause organ damage with prolonged or repeated exposure. - brain

(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Sodium azide:

LD50 Oral (rat) (mg/kg body weight) = 27

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 20

LC50 Inhalation (rat) of vapor/dust/aerosol/smoke (mg/l/4h) or gas (ppmV/4h) > 0.52



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Maleimide:

LD50 Oral (mouse) (mg/kg) = 7,76

Observations: (Lett.) Symptoms: if swallowed, causes severe burning of the mouth and throat, as well as perforation of the esophagus and stomach. Symptoms: mucous membrane irritation, cough, shortness of breath. Possible damage: damage to the respiratory system.

Causes severe eye injury.

Respiratory or skin sensitization.

Germ cell mutagenicity.

Reproductive toxicity.

Specific target organ toxicity - single exposure.

Target organ toxicity - repeated exposure.

11.2. Information on other hazards

Information not available

SECTION 12: Ecological information

12.1. Toxicity

Related to contained substances:

Sodium azide:

Fish toxicity Continuous flow test CL50 - Oncorhynchus mykiss (Rainbow trout) - 2.75 mg/l - 96 h (OECD Test Guideline 203).

Algae toxicity Static test CE50r - Pseudokirchneriella subcapitata - 0.35 mg/l - 96 h (OECD Test Guideline 201)

Toxicity to bacteria

C(E)L50 (mg/l) = 0.7

Product is harmful to the environment and aquatic organisms following acute exposure.

Use according to good working practices, avoiding dispersion of the product into the environment.

12.2. Persistence and degradability

Related to contained substances:

Sodium azide (sodium azide):

Methods for determining biological degradability are not applicable to non-organic substances.

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Information not available

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to current local or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

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

D.Lgs 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances), D.Lgs 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations), D.Lgs 81/08 (Consolidated text on the protection of health and safety in the workplace), D. M. 03/04/2007 (Implementation of Directive No. 2006/8/EC), Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 790/2009, Legislative Decree 105/2015 (Seveso Ter Directive), Regulation (EU) 2019/1021, Regulation (EU) 2020/878.

SEVESO Category:

H2 – Acute Toxic

E2 – Environmental hazards

REGULATION (EU) No 1357/2014 – waste:

HP14 – Ecotoxic

Substances on Candidate List (art.59 REACH).

Based on available data, there are no SVHC substances present.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16: Other information

Description of the hazard statements exposed to point 3
H300 = Fatal if swallowed.



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H310 = Fatal in contact with skin.
H330 = Fatal if inhaled.
H373 = May cause damage to organs through prolonged or repeated exposure .
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H314 = Causes severe skin burns and eye damage.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Classification according to Regulation (EC) Nr. 1272/2008

H302 - Harmful if swallowed. Classification procedure: Calculation method
H311 – Toxic in contact with skin. Classification procedure: Calculation method
H411 - Toxic to aquatic life with long lasting effects. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EC) 758/2013 of the European Parliament
 4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 6. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 7. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 8. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 9. Regulation (EU) 517/2013 of Council
 10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 12. Regulation (EU) 2015/491 of the European Parliament
 13. Regulation (EU) No. 1297/2014 of the Commission
 14. Regulation (EC) 528/2012 of the European Parliament and subsequent updates
 15. Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index.
 - Handling Chemical Safety
 - Niosh – Registry of Toxic Effects of Chemical Substances
 - INRS - Fiche Toxicologique
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This SDS replaces and cancels all previous ones.



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SAFETY DATA SHEET

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

1.1 Product identifiers

Code: **NAGP68905**
Product name: **G6PDH-GLUCOSE 6 PHOSPHATE DEHYDROGENASE_R3 (Reagent)**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use: Reagent for in-vitro diagnostic

1.3 Details of the supplier of the safety data sheet

Name: **Mascia Brunelli S.p.A.**
Full address: **Viale Monza, 272**
District and Country: **20128 Milano (Milano)**
Italia

Tel. **0039 02 252091**

e-mail address of the competent person

responsible for the Safety Data Sheet: **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to:
NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: -

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements: --

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

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Refer to paragraph 16 for full text of hazard statements.

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Sodium azide		
CAS 26628-22-8	x < 0,1%	Acute Tox 2, H300
EC 247-852-1		Acute Tox 1, H310
REACH – No.: 01-2119457019-37-XXXX		Acute Tox 2, H330
		STOT RE 2, H373
INDEX 011-004-00-7		Aquatic acute 1, H400
		Aquatic chronic 1, H410
		Acute Tox. Factor M=1
		Chronic Tox Factor M=1
		ATE oral = 27,0 mg/kg
		ATE dermal > 20,0 mg/kg
		ATE inhal > 0,5 mg/l/4 h

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation: air the area. Immediately move the patient from the contaminated area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct skin contact (of the pure product): wash thoroughly with soap and flushing water.

Direct eye contact (of pure product): wash immediately with plenty of water for at least 10 minutes.

Ingestion: not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

4.2. Most important symptoms and effects, both acute and delayed

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Fire fighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Water jets. Use water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (fluobrene, solkan 123, NAF, etc.) are used. Cool containers with jets of water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: leave the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For emergency responders: Wear gloves and protective clothing. Eliminate all unguarded flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand. If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities. Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Collect the product for reuse, if possible, or for disposal. If possible, absorb it with inert material. Prevent it from entering the sewage system.

6.3.2 For cleanup. After collection, wash the affected area and materials with water.

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors.
Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with care.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium azide:
TLV(Ceiling value): as hydrazoic acid vapor 0.11 ppm; as sodium azide 0.29 mg/m³ (ACGIH 1996). TWA 0.1 mg/m³
MAK 0.2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:
Professional uses:
No specific controls provided

Individual protective measures:



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HAND PROTECTION

None required for normal use.

SKIN PROTECTION

Wear normal work clothing.

EYE PROTECTION

None required for normal use.

RESPIRATORY PROTECTION

None required for normal use.

THERMAL HAZARDS

No hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS

Related to contained substances:

Sodium azide:

Eye/face protection: Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as NIOSH (US) or EN 166 (EU) Safety glasses.

Physical protection: Protective clothing

Respiratory protection:

Required when dust is generated

Our recommendations on respiratory protection filtering are based on the following standards: DIN EN 143, DIN 14387 and other associated standards related to the respiratory protection system used.

Suggested filter type: filter type P3

The contractor must ensure that maintenance, cleaning and inspections of protective equipment are carried out according to the manufacturer's instructions. These measures must be properly documented.

Environmental exposure control

Do not allow product to enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colorless	
Odour	odorless	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	Not determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
pH	Not determined	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Not determined	



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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Related to contained substances:

Sodium azide:

in contact with acids releases very toxic gases.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Related to contained substances:

Sodium azide:

An explosion occurred during concentration in rotary evaporator of a mixture of sodium azide, methylene chloride, dimethyl sulfoxide and sulfuric acid.

Strong heating (decomposition).

Exposure to moisture.

No information available.

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulphide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulphide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

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

ATE(mix) oral = 1.800.000,0 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met
- (b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met
- (c) severe ocular damage/eye irritation: based on available data the classification criteria are not met
- (d) respiratory or skin sensitization: based on available data the classification criteria are not met
- (e) germ cell mutagenicity: based on available data the classification criteria are not met
- (f) carcinogenicity: based on available data the classification criteria are not met
- (g) reproductive toxicity: based on available data the classification criteria are not met
- (h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met
- (j) aspiration hazard: based on available data, the classification criteria are not met.



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Related to contained substances:

Sodium azide:

LD50 Oral (rat) (mg/kg body weight) = 27

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 20

LC50 Inhalation (rat) of vapor/dust/aerosol/smoke (mg/l/4h) or gas (ppmV/4h) > 0.52

11.2. Information on other hazards

Information not available

SECTION 12: Ecological information

12.1. Toxicity

Related to contained substances:

Sodium azide:

Fish toxicity Continuous flow test CL50 - *Oncorhynchus mykiss* (Rainbow trout) - 2.75 mg/l - 96 h

(OECD Test Guideline 203).

Algae toxicity Static test CE50r - *Pseudokirchneriella subcapitata* - 0.35 mg/l - 96 h

(OECD Test Guideline 201)

Toxicity to bacteria

C(E)L50 (mg/l) = 0.7

Use according to good working practices, avoiding dispersion of the product into the environment.

12.2. Persistence and degradability

Related to contained substances:

Sodium azide (sodium azide):

Methods for determining biological degradability are not applicable to non-organic substances.

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Information not available

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Operate according to current local or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number



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The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

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

D.Lgs 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances), D.Lgs 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations), D.Lgs 81/08 (Consolidated text on the protection of health and safety in the workplace), D. M. 03/04/2007 (Implementation of Directive No. 2006/8/EC), Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 790/2009, Legislative Decree 105/2015 (Seveso Ter Directive), Regulation (EU) 2019/1021, Regulation (EU) 2020/878. Substances on Candidate List (art.59 REACH).

Based on available data, there are no SVHC substances present.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16: Other information

Description of the hazard statements exposed to point 3

H300 = Fatal if swallowed.

H310 = Fatal in contact with skin.

H330 = Fatal if inhaled.

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

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

No hazard to report. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 758/2013 of the European Parliament
4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)



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5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 6. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 7. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 8. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 9. Regulation (EU) 517/2013 of Council
 10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 12. Regulation (EU) 2015/491 of the European Parliament
 13. Regulation (EU) No. 1297/2014 of the Commission
 14. Regulation (EC) 528/2012 of the European Parliament and subsequent updates
 15. Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index.
 - Handling Chemical Safety
 - Niosh – Registry of Toxic Effects of Chemical Substances
 - INRS - Fiche Toxicologique
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This SDS replaces and cancels all previous ones.