

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.11.2025

Version number 6 (replaces version 5)

Revision: 18.11.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
<ul style="list-style-type: none">1.1 Product identifier	
<ul style="list-style-type: none">Creation date 26.12.2011	
<ul style="list-style-type: none">Trade name: <u>HOBT 20% IN NMP</u>	
<ul style="list-style-type: none">Article number: 0875	
<ul style="list-style-type: none">Registration number A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.	
<ul style="list-style-type: none">UFI: 5EJ0-20T3-100J-C2M2	
<ul style="list-style-type: none">1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.	
<ul style="list-style-type: none">Application of the substance / the mixture Chemical for research, development, manufacturing, laboratory chemical for analysis.	
<ul style="list-style-type: none">1.3 Details of the supplier of the safety data sheet	
<ul style="list-style-type: none">Manufacturer/Supplier: Biosolve Chimie 20 Rue Roger Husson, 57260 Dieuze, France Tel: +33 3 878 675 80/81/82/83/84/85 Email: info@biosolvechimie.com	
<p>Biosolve B.V. Kerkhofstraat 21, 5554HG Valkenswaard, the Netherlands. Tel: +31-(0)40-2071300 Fax: +31-(0)40-2048537 Email: info@biosolve-chemicals.com</p>	
<ul style="list-style-type: none">Further information obtainable from: Product safety department.	
<ul style="list-style-type: none">1.4 Emergency telephone number: Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008. See at https://poisoncentres.echa.europa.eu/appointed-bodies Help desk: http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks. For more information see section 16.	

SECTION 2: Hazards identification	
<ul style="list-style-type: none">2.1 Classification of the substance or mixture	
<ul style="list-style-type: none">Classification according to Regulation (EC) No 1272/2008	
	<p>GHS01 exploding bomb</p>
	<p>Unst. Expl. H200 Unstable explosives.</p>
	<p>GHS08 health hazard</p>
	<p>Repr. 1B H360D May damage the unborn child.</p>
	<p>(Contd. on page 2)</p>
	<p>EU</p>

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GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

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

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

· Hazard pictograms



GHS01



GHS07



GHS08

· Signal word Danger

· Hazard statements

H200 Unstable explosives.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H335 May cause respiratory irritation.

· Precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P373 DO NOT fight fire when fire reaches explosives.

P380 Evacuate area.

P401 Store in accordance with local/regional/national/international regulations.

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

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components:		
CAS: 872-50-4 EINECS: 212-828-1 Index number: 606-021-00-7 Reg.nr.: 01-2119472430-46-XXXX	<i>N-methyl-2-pyrrolidone</i> Repr. 1B, H360D; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	75-100%
CAS: 123333-53-9 EINECS: 219-989-7 Index number: 613-285-00-7	<i>1-hydroxybenzotriazole, monohydrated HOBT hydrate</i> Expl. 1.3, H203	10-25%
SVHC		
CAS: 872-50-4 <i>N-methyl-2-pyrrolidone</i>		
Additional information: For the wording of the listed hazard phrases refer to section 16.		

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SECTION 4: First aid measures

- 4.1 Description of first aid measures**
- General information:** Immediately remove any clothing soiled by the product.
- After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** If symptoms persist consult doctor.
- 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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- 5.3 Advice for firefighters**
- Protective equipment:** No special measures required.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Remove persons from danger area.
- 6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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

Do not heat dry the solution, this action may lead to explosion.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 872-50-4 N-methyl-2-pyrrolidone

BOELV	Short-term value: 80 mg/m ³ , 20 ppm Long-term value: 40 mg/m ³ , 10 ppm Skin
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IOELV	Short-term value: 80 mg/m ³ , 20 ppm Long-term value: 40 mg/m ³ , 10 ppm Skin
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· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

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· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· 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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

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

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Colour:

According to product specification

· Odour:

Characteristic

· Odour threshold:

No data available.

· Melting point/freezing point:

No data available.

· Boiling point or initial boiling point and boiling range

202 °C

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<ul style="list-style-type: none"> · Flammability · Lower and upper explosion limit · Lower: · Upper: · Flash point: · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: · Dynamic: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure at 20 °C: · Density and/or relative density · Density at 20 °C: · Relative density · Vapour density 	<ul style="list-style-type: none"> Not applicable. 1.3 Vol % 9.5 Vol % > 60 °C 270 °C No data available No data available Not determined. Fully miscible. No data available 0.3 hPa 1.09 g/cm³ No data available No data available
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: 	<ul style="list-style-type: none"> Solution Product is not selfigniting. Risk of explosion by shock, friction, fire or other sources of ignition.
<ul style="list-style-type: none"> · Solvent content: · Organic solvents: · Solids content: · Change in condition · Evaporation rate 	<ul style="list-style-type: none"> 80.0 % 20.0 % No data available
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids · Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids · Pyrophoric solids · Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water 	<ul style="list-style-type: none"> Unstable explosives. Void

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· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

CAS: 872-50-4 N-methyl-2-pyrrolidone

Oral LD50 3,914 mg/kg (rat)

Dermal LD50 8,000 mg/kg (rabbit)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Causes serious eye irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** May damage the unborn child.

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

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- **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**
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

*	SECTION 13: Disposal considerations								
	<ul style="list-style-type: none"> · 13.1 Waste treatment methods · Recommendation <i>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</i> · European waste catalogue <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px; height: 10px; vertical-align: top;">HP1</td><td>Explosive</td></tr> <tr> <td style="width: 10px; height: 10px; vertical-align: top;">HP4</td><td>Irritant - skin irritation and eye damage</td></tr> <tr> <td style="width: 10px; height: 10px; vertical-align: top;">HP5</td><td>Specific Target Organ Toxicity (STOT)/Aspiration Toxicity</td></tr> <tr> <td style="width: 10px; height: 10px; vertical-align: top;">HP10</td><td>Toxic for reproduction</td></tr> </table> · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. · Recommended cleansing agents: Water, if necessary together with cleansing agents. 	HP1	Explosive	HP4	Irritant - skin irritation and eye damage	HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	HP10	Toxic for reproduction
HP1	Explosive								
HP4	Irritant - skin irritation and eye damage								
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity								
HP10	Toxic for reproduction								

*	SECTION 14: Transport information
	<ul style="list-style-type: none"> · 14.1 UN number or ID number <i>ADR, ADN, IMDG, IATA</i> <i>Void</i> · 14.2 UN proper shipping name <i>ADR, ADN, IMDG, IATA</i> <i>Void</i> · 14.3 Transport hazard class(es) <i>ADR, ADN, IMDG, IATA</i> <i>Class</i> <i>Void</i> · 14.4 Packing group <i>ADR, IMDG, IATA</i> <i>Void</i>
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· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

* **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** None of the ingredients is listed.
- Seveso category P1a EXPLOSIVES**
- Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t
- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 30, 71, 72
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.
- REGULATION (EU) 2019/1148**
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
- None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
- None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors**
- None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
- None of the ingredients is listed.
- National regulations:**
- Other regulations, limitations and prohibitive regulations**
- Substances of very high concern (SVHC) according to REACH, Article 57**
- CAS: 872-50-4 N-methyl-2-pyrrolidone
- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H203 Explosive; fire, blast or projection hazard.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

• Department issuing SDS: Product safety department

• Contact:

Austria Vergiftungsinformationszentrale (VIZ) (+43) 1 406 43 43

Belgium Centre Antipoisons (+32) 070 245 245

Antigifcentrum 070 245 245 (+32)

Bulgaria Национален токсикологичен информационен център

Многопрофилна болница за активно лечение и специална медицина "Н.И.Пирогов" (+359) 2 9154 233

Croatia Centar za kontrolu otrovanja (+385) 01 2348 342

*Cyprus Υπουργείο Εργασίας, Πρόνοιας και Κοινωνικών Ασφαλίσεων
Τμήμα Επιθεώρησης Εργασίας 1401*

Czech Republic Toxikologické informační středisko (+420) 224 919 293, +(420) 224 915 402

Denmark Giftlinjen: +45 8212 1212

Estonia Terviseameti mürgistusteabekeskuse 16662, (+372) 7943 794

Finland Myrkytystietokeskus 0800 147 111, 09 471 977

France ORFILA (INRS) : + 33 (0)1 45 42 59 59

Centres Antipoison et de Toxicovigilance

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0800 59 59 59

LYON: 04 72 11 69 11

MARSEILLE: 04 91 75 25 25

NANCY: 03 83 22 50 50

PARIS: 01 40 05 48 48

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

Germany Giftnotruf der Charité, Berlin: 030/19240

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-

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Nord) :0551/19 240

Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240

Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730

Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240

Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240

Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240

Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240

Great Britain Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

Greece Κέντρο Δηλητηριάσεων (+30) 2107793777

Hungary Országos Kémiai Biztonsági Intézet (OKBI) +(36)-80-201-199

Iceland LANDSPITALI - THE NATIONAL UNIVERSITY HOSPITAL Tel. (+354) 543 1000

*Ireland National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)*

Italy Istituto Superiore di Sanità (ISS) +390649906140

CAV "Ospedale Pediatrico Bambino Gesù" – Roma Tel. (+39) 06.6859.3726

CAV "Azienda Ospedaliera Università di Foggia" – Foggia Tel. 800.183.459

CAV "Azienda Ospedaliera A. Cardarelli" – Napoli Tel. (+39) 081.545.3333

CAV Policlinico "Umberto I" – Roma Tel. (+39) 06.4997.8000

CAV Policlinico "A. Gemelli" – Roma Tel. (+39) 06.305.4343

CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819

CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444

CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29

CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00

CAV Centro antiveleli Veneto – Verona Tel. 800.011.858

Latvia Latvijas Vides, ģeoloģijas un meteoroloģijas centrs (+371) 67032600

Lithuania Apsinuodijimų informacijos biuras +370 (5) 2362052

Luxembourg Antigifcentrum / Centre antipoisons (+352) 8002 5500

The Netherlands Nationaal Vergiftigingen Informatie +31 (0)88 755 8000

Norway Giftinformasjonen 22 59 13 00

Poland Biuro do spraw Substancji Chemicznych +48 42 2538 400

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*Portugal Centro de informação antivenenos 800 250 250**Romania Institutul Național de Sănătate Publică +40213183606**Slovakia Národné toxikologické informačné centrum (NTIC) (+421) 2 5477 4166**Slovenia Urad Republike Slovenije za kemikalije +38614006051**Spain Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) (+34) 91 562 04 20**Sweden Giftinformationscentralen (+46) 10 456 6700**Switzerland Tox Info Suisse 24-h-Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51) Auskunft: +41 44 251 66 66***- Date of previous version: 04.11.2025****- Version number of previous version: 5****- Abbreviations and acronyms:***RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**ICAO: International Civil Aviation Organisation**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**ELINCS: European List of Notified 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**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Expl. 1.3: Explosives – Division 1.3**Unst. Expl.: Explosives – Unstable explosive**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 1B: Reproductive toxicity – Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3***- * Data compared to the previous version altered.**

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Annex: Exposure scenario

- Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- Conditions of use

- Duration and frequency 5 workdays/week.

- Physical parameters

- Physical state Fluid

- Concentration of the substance in the mixture The substance is main component.

- Other operational conditions

- Other operational conditions affecting environmental exposure No special measures required.

- Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- Other operational conditions affecting consumer exposure Keep out of the reach of children.

- Other operational conditions affecting consumer exposure during the use of the product Not applicable.

- Risk management measures

- Worker protection

- Organisational protective measures No special measures required.

- Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

- Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Pregnant women should strictly avoid inhalation or skin contact.

Tightly sealed goggles

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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

- Measures for consumer protection

Ensure adequate labelling.

Keep locked up and out of the reach of children.

- Environmental protection measures

- Water No special measures required.

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Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

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· Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

· Disposal procedures

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

· Waste type Partially emptied and uncleaned packaging

· Exposure estimation

· Consumer Not relevant for this Exposure Scenario.

· Guidance for downstream users No further relevant information available.

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