

# SAFETY DATA SHEET

In accordance with 1907/2006 annex II and 1272/2008  
(All references to EU regulations and directives are abbreviated into only  
the numeric term)

Revision date 2022-06-20

Replaces SDS issued 2022-03-22

Version number 2.0



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

### 1.1. Product identifier

Trade name WorkBeads 40 Ni-IDA

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

Identified uses Research and process chromatography

### 1.3. Details of the supplier of the safety data sheet

Company Bio-Works Sweden AB  
Viridings allé 18  
754 50 Uppsala  
Sweden  
Telephone +46 8 5626 7430  
E-mail info@bio-works.com

### 1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 3, H226  
Skin. Sens. 1, H317  
Resp. Sens. 1, H334  
Muta. 2, H341  
Carc. 1A, H350i  
Repr. 1B, H360D  
STOT RE 1, H372  
Aquatic Chronic 3, H412  
(See section 16)

## 2.2. Label elements

Hazard pictogram



Signal word	Danger
Hazard statements	
H226	Flammable liquid and vapour
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P201	Obtain special instructions before use
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260	Do not breathe dust, fume, gas, mist, vapours, or spray
P280	Wear protective gloves, protective clothing and eye or face protection
P308+P313	IF exposed or concerned: Get medical advice/attention
P403+P235	Store in a well-ventilated place. Keep cool

### Supplemental hazard information

Contains: NICKEL SULFATE  
Restricted to professional users.

## 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>ETHANOL</b>		
CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH: 01-2119457610-43	Flam. Liq. 2; H225	≤20 %
<b>NICKEL SULFATE</b>		
CAS No: 7786-81-4 EC No: 232-104-9 Index No: 028-009-00-5	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Resp. Sens. 1, Skin. Sens. 1, Muta. 2, Carc. 1A, Repr. 1B, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H332, H302, H315, H334, H317, H341, H350i, H360D, H372, H400, H410	<1.5 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### Upon breathing in

Move casualty to fresh air and rinse nose, mouth and throat with water.

Please contact the doctor.

#### Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

#### Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

Contact a doctor.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

#### Generally

Suspected of causing genetic defects.

May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure.

#### Upon breathing in

May cause cancer by inhalation.

May cause allergy or asthma symptoms or breathing difficulties.

#### Upon skin contact

Allergic reactions.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

### 5.2. Special hazards arising from the substance or mixture

Emits flammable vapours which may form an explosive mixture with air.

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

Note, risk for discharge of environmentally harmful substances.

Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.

### 5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use proper breathing apparatus.

Wear full protective clothing.

Cool closed containers that were exposed to fire with water.

Contain and collect extinguishing liquid.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

Note the risk of ignition.

Avoid inhalation and exposure to skin and eyes.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Switch off power at the main switch. Do not use the power switch in the room where the spillage has occurred.

Ensure good ventilation.

Note, risk for formation of sparks due to static electricity. Do not remove clothing in a room where spillage has occurred.

Keep unauthorized and unprotected people at a safe distance.

Evacuate the accident area and call an ambulance, if relevant.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Chemical protection suits should be worn for all sanitizing work.

Use breathing apparatus when oxygen levels are low or unknown.

### 6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

Please contact involved authorities if unintended release occurs.

Prevent from entering sewers, basements and pits, or any place where gas accumulation could be dangerous.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

Notify rescue services for larger spillage.

### 6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so.

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Do NOT use tools emitting sparks when cleaning.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Ensure good ventilation after sanitation.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Pregnant women should not be exposed to this product.

Open fire, hot items, sparks or other ignition sources must not be present in the environment used for handling this product.

Take the necessary preventive and protective measures for safe handling.

The product may be electrostatically charged. Always ground the containers while transferring the contents from one container to another. Do not use tools that may cause sparks.

Implement appropriate engineering controls if necessary, see Section 8.

Use recommended safety equipment, see section 8.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is handled.

Avoid spillage, inhalation and contact with eyes and skin.

Wash your hands after using the product.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Take off work clothes and protective gear before meals.

Keep away from incompatible products.

## 7.2. Conditions for safe storage, including any incompatibilities

Take the necessary preventive and protective measures for safe storage.

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.

Must not be stored close to ignition sources.

Store tightly, in original packaging.

Store at 4-30 ° C.

Store as flammable liquid.

Store in a well-ventilated and locked place.

Store in dry and cool area.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Do not store close to incompatible materials (see section 10.5).

## 7.3. Specific end use(s)

See identified uses in Section 1.2.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### 8.1.1. National limit values

#### Nickel and its inorganic compounds (except nickel tetracarbonyl)

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 0.1 mg/m<sup>3</sup> (Water-soluble nickel compounds (as Ni)) / 0.5 mg/m<sup>3</sup> (Nickel and water-insoluble nickel compounds (as Ni))

Note Sk,Carc,Sen

## ETHANOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 1000 ppm / 1920 mg/m<sup>3</sup>

Note

Explanations of abbreviations are given in Section 16b

## DNEL

### ETHANOL

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	1900 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	114 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	343 mg/kg bw/d
Worker	Chronic Systemic	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Dermal	950 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	87 mg/kg
Consumer	Chronic Systemic	Dermal	206 mg/kg bw/d

## NICKEL SULFATE

	Type of exposure	Route of exposure	Value
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Worker	Acute Local	Inhalation	0.7 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	0.00002 mg/m <sup>3</sup>
Worker	Acute Systemic	Inhalation	16 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	0.4 mg/m <sup>3</sup>
Consumer	Acute Systemic	Oral	0.012 mg/kg bw

## PNEC ETHANOL

Environmental protection target	PNEC value
Fresh water	0.96 mg/l
Freshwater sediments	3.6 mg/kg
Marine water	0.79 mg/l
Marine sediments	2.9 mg/kg
Microorganisms in sewage treatment	580 mg/l
Soil (agricultural)	0.63 mg/kg

## NICKEL SULFATE

Environmental protection target	PNEC value
Fresh water	0.0159 mg/L
Marine water	0.0385 mg/L
Soil (agricultural)	134 mg/kg dw

### 8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

#### 8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source. Emergency showers and eye-rinsing facilities must be available at the workplace.

#### Eye/face protection

Use protective glasses, safety goggles, or a visor.  
Eye protection should be worn if there is any danger of direct exposure or splashing.  
Use protective glasses with tight seals according to standard EN166.

#### Skin protection

Use suitable protective clothing.  
Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.  
During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.  
The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.  
Based on the chemical properties of the product, the following glove materials are recommended (EN 374):  
– Nitrile rubber.

#### Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.  
The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.  
Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:  
– A/P2.

#### 8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(a) Physical state	liquid Form: suspension
(b) Colour	green
(c) Odour	like alcohol
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	35 °C
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	Not indicated
(m) Solubility	Solubility in water: Partially soluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	Not indicated
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not indicated

#### 9.2.2. Other safety characteristics

Not indicated

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hazardous reactions not expected to occur under normal conditions.

Vapour can create explosive mixtures with air.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

May emit volatile, flammable vapours. Avoid handling close to heat or ignition sources.

At normal handling and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

Protect from heat and direct sunlight.

### 10.5. Incompatible materials

Avoid contact with oxidizers.

Avoid contact with strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11: Toxicological information

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

#### Acute toxicity

The product is not classified as acutely toxic.

#### ETHANOL

LD50 rabbit 24h: > 20000 mg/kg Dermally

LC50 rat 4h: 124.7 mg/L Inhalation

LD50 rat 24h: 6200 mg/kg Orally

ATE : 1394 mg/kg Orally

#### NICKEL SULFATE

LD50 rat 24h: 361.9 mg/kg Orally

#### Skin corrosion/irritation

The product is not classified for skin corrosion/irritation.

#### Serious eye damage/irritation

The product is not classified as irritant to the eyes.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

May cause cancer by inhalation.

#### Reproductive toxicity

May damage the unborn child.

#### STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

#### STOT-repeated exposure

Prolonged or repeated exposure causes organ damage.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

The product contains a substance with endocrine disrupting properties.

#### 11.2.2. Other information

Not indicated.

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Prevent release on land, in water and drains.

#### ETHANOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 13480 mg/L

LC50 fathead minnow (*Pimephales promelas*) 96h: 13480 mg/L

LC50 Freshwater water flea (*Daphnia magna*) 48h: 5400 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 9268 mg/L

LC50 Ide (*Leuciscus idus*) 48h: 8140 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 24h: 10800 mg/l

IC50 Algae 72h: > 10.9 mg/L

LC50 Common Bleak (*Alburnus alburnus*) 96h: 11000 mg/L

LC50 Rainbow trout (*Oncorhynchus mykiss*) 24h: 11200 mg/L

IC50 Pseudomonas (*Pseudomonas putida*) 16h: 6500 mg/L



## NICKEL SULFATE

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 0.26 mg/L  
LC50 fathead minnow (*Pimephales promelas*) 96h: 1 - 3.279 mg/L  
EC50 Freshwater water flea (*Daphnia magna*) 48 h: 435 mg/L  
LC50 common carp (*Cyprinus carpio*) 96h: 1 - 47.58 mg/l  
EC50 Algae (*Pseudokirchneriella subcapitata*) 72h: 0.75 mg/L  
LC50 Guppy (*Poecilia reticulata*) 96h: 1 - 41.04 mg/L

### 12.2. Persistence and degradability

There is no information regarding persistence or degradability.

### 12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

### 12.4. Mobility in soil

Information about mobility in nature is not available.

### 12.5. Results of PBT and vPvB assessment

The product does not fulfill the PBT or vPvB criteria.

### 12.6. Endocrine disrupting properties

The product contains a substance with endocrine disrupting properties.

### 12.7. Other adverse effects

Data lacking.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

Avoid discharge into sewers.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

#### Classification according to 2008/98/EC

Recommended LoW-code: 07 07 04 Other organicsolvents, washing liquids and mother liquors

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### 14.1. UN number or ID number

1170

### 14.2. UN proper shipping name

ETHYL ALCOHOL SOLUTION

### 14.3. Transport hazard class(es)

#### Class

3: Flammable liquids

#### Classification code (ADR/RID)

F1: Flammable liquids having a flash-point of or below 60 °C

#### Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

#### Labels



### 14.4. Packing group

Packing group III

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

##### Tunnel restrictions

Tunnel category: D/E

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### 14.8 Other transport information

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres (ADR 1.1.3.6)

Stowage category A (IMDG)

Emergency Schedule (EmS) for FIRE (IMDG) F-E

Emergency Schedule (EmS) for SPILLAGE (IMDG) S-D

## SECTION 15: Regulatory information

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

Not indicated.

#### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

A chemical safety report is available for the product.

## SECTION 16: Other information

#### 16a. Indication of where changes have been made to the previous version of the safety data sheet

##### Revisions of this document

Earlier versions

2022-03-22 Changes in section(s) 1, 2, 3, 4, 5, 6, 7, 8, 9.

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

##### Full texts for Hazard Class and Category Code mentioned in section 3

Flam. Liq. 2	Flammable liquids, Hazard Category 2 - Flam. Liq. 2, H225 - Highly flammable liquid and vapour
Acute Tox. 4	Acute toxicity (oral), Hazard Category 4 - Acute Tox. 4, H302 - Harmful if swallowed
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Resp. Sens. 1	Respiratory or skin sensitisation, Sensitisation — Respiratory, hazard category 1 - Resp. Sens. 1, H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin. Sens. 1	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1 - Skin. Sens. 1, H317 - May cause an allergic skin reaction
Muta. 2	Germ cell mutagenicity, Hazard Category 2 - Muta. 2, H341 - Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
Carc. 1A	Carcinogenicity, Hazard Category 1A - Carc. 1A, H350i - May cause cancer by inhalation
Repr. 1B	Reproductive toxicity, Hazard Category 1B - Repr. 1B, H360D - May damage the unborn child
STOT RE 1	Specific target organ toxicity — Repeated exposure, Hazard Category 1 - STOT RE 1, H372 - Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1 - Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects
Flam. Liq. 3	Flammable liquids, Hazard Category 3 - Flam. Liq. 3, H226 - Flammable liquid and vapour

#### Explanations of the abbreviations in Section 8

##### United Kingdom (EH40/2005 (Third edition, published 2018))

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

Carc Capable of causing cancer and/or heritable genetic damage

Sen Capable of causing occupational asthma

## Explanations of the abbreviations in Section 14

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

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

Tunnel restriction code: D/E; Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres (ADR 1.1.3.6)

## 16c. Key literature references and sources for data

### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2022-06-20.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

### Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- EH40/2005 EH40/2005 Workplace exposure limits
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

## 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

## 16e. List of relevant hazard statements and/or precautionary statements

### Full texts for hazard statements mentioned in section 3

- H225 Highly flammable liquid and vapour
- H332 Harmful if inhaled
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H350i May cause cancer by inhalation
- H360D May damage the unborn child
- H372 Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

## 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment Warning for misuse

Not indicated.

**Other relevant information**

Not indicated

**Editorial information**

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)