



**SAFETY DATA SHEET**  
**HR3 GLASS & MIRROR CLEANER CONCENTRATE**  
According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

**1.1. Product identifier**

Product name HR3 GLASS & MIRROR CLEANER CONCENTRATE

Internal identification C904

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

Identified uses Window glass cleaner.

Uses advised against Use only for intended applications.

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

Supplier ARROW SOLUTIONS  
RAWDON ROAD  
MOIRA  
SWADLINCOTE  
DERBYSHIRE  
DE12 6DA  
TEL: +44 (0)1283 221044  
FAX: +44 (0)1283 225731  
sales@arrowchem.com

**1.4. Emergency telephone number**

Emergency telephone (24 hrs) +44 (0) 777 8505 330

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (EC 1272/2008)**

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

**2.2. Label elements**

**Hazard pictograms**



Signal word Warning

Hazard statements  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

### Precautionary statements

P273 Avoid release to the environment.  
 P280 Wear protective gloves, eye and face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

### Detergent labelling

< 5% anionic surfactants, Contains Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                                                                                |                      |                                                  |      |
|------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------|------|
| Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts                  |                      |                                                  | 1-5% |
| CAS number: 68891-38-3                                                                         | EC number: 500-234-8 | REACH registration number: 01-2119488639-16-XXXX |      |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>Aquatic Chronic 3 - H412 |                      |                                                  |      |
| SODIUM LAUROYL SARCOSINATE                                                                     |                      |                                                  | <1%  |
| CAS number: 137-16-6                                                                           | EC number: 205-281-5 | REACH registration number: 01-2119527780-39-xxxx |      |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318                             |                      |                                                  |      |

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**Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)** **<1%**

CAS number: 55965-84-9

M factor (Acute) = 100

M factor (Chronic) = 100

### Classification

Acute Tox. 3 - H301

Acute Tox. 3 - H311

Acute Tox. 3 - H331

Skin Corr. 1C - H314

Eye Dam. 1 - H318

Skin Sens. 1A - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand. Effects may be delayed.                                |
| <b>Inhalation</b>          | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.                                                                               |
| <b>Ingestion</b>           | Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.                                                                      |
| <b>Skin contact</b>        | Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.                                                                   |
| <b>Eye contact</b>         | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing. |

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

|                     |                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Coughing, chest tightness, feeling of chest pressure.                                                |
| <b>Ingestion</b>    | Gastrointestinal symptoms, including upset stomach.                                                  |
| <b>Skin contact</b> | Causes skin irritation. May cause skin sensitisation or allergic reactions in sensitive individuals. |
| <b>Eye contact</b>  | Causes serious eye irritation.                                                                       |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|
| <b>Suitable extinguishing media</b> | Use fire-extinguishing media suitable for the surrounding fire. |
|-------------------------------------|-----------------------------------------------------------------|

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

|                                      |                                                                                                                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Sulphurous gases (SO <sub>x</sub> ). |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Avoid release to the environment. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Avoid contact with contaminated tools and objects. Wash skin thoroughly after handling.

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

**Storage precautions** Store at temperatures between 4°C and 40°C.

**Storage class** Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

**Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts (CAS: 68891-38-3)**

**DNEL**

- Industry - Dermal; Long term systemic effects: 2750 mg/kg/day
- Industry - Inhalation; Long term systemic effects: 175 mg/m<sup>3</sup>
- Consumer - Oral; Long term systemic effects: 15 mg/kg/day
- Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day
- Consumer - Inhalation; Long term systemic effects: 52 mg/m<sup>3</sup>

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### PNEC

- Fresh water; 0.24 mg/l
- marine water; 0.024 mg/l
- Intermittent release; 0.071 mg/l
- Sediment (Freshwater); 5.45 mg/kg
- Sediment (Marinewater); 0.545 mg/kg
- Soil; 0.946 mg/kg
- STP; 10000 mg/l

### SODIUM LAUROYL SARCOSINATE (CAS: 137-16-6)

### DNEL

- Consumer - Dermal; : 0.34 mg/kg/day
- Industry - Dermal; : 3.43 mg/kg/day
- Professional - Dermal; : 3.43 mg/kg/day
- Consumer - Inhalation; : 0.01 mg/m<sup>3</sup>
- Industry - Inhalation; : 0.1 mg/m<sup>3</sup>
- Professional - Inhalation; : 0.5 mg/m<sup>3</sup>

### PNEC

- Consumer - Fresh water; 0.0297 mg/l
- Consumer - marine water; 0.003 mg/l
- Consumer - Soil; 0.012 mg/kg
- Consumer - STP; >10 mg/l
- Consumer - Sediment (Freshwater); 0.034 mg/kg
- Consumer - Sediment (Marinewater); 0.0034 mg/kg

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene.

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|                                        |                                                                                                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other skin and body protection</b>  | Provide eyewash station.                                                                                                                                                                                    |
| <b>Hygiene measures</b>                | Wash hands thoroughly after handling. Wash contaminated clothing before reuse.                                                                                                                              |
| <b>Environmental exposure controls</b> | Store in a demarcated bunded area to prevent release to drains and/or watercourses.<br>Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. |

### SECTION 9: Physical and chemical properties

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

|                                                     |                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>                                   | Clear liquid.                                                                                                                                      |
| <b>Colour</b>                                       | Dark. Blue.                                                                                                                                        |
| <b>Odour</b>                                        | Mild.                                                                                                                                              |
| <b>Odour threshold</b>                              | Not determined.                                                                                                                                    |
| <b>pH</b>                                           | pH (concentrated solution): 7.0                                                                                                                    |
| <b>Melting point</b>                                | Not applicable.                                                                                                                                    |
| <b>Initial boiling point and range</b>              | Not determined.                                                                                                                                    |
| <b>Flash point</b>                                  | Not applicable.                                                                                                                                    |
| <b>Evaporation rate</b>                             | Not applicable.                                                                                                                                    |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                                                                                                                                    |
| <b>Upper/lower flammability or explosive limits</b> | Not applicable.                                                                                                                                    |
| <b>Other flammability</b>                           | Not applicable.                                                                                                                                    |
| <b>Relative density</b>                             | ~ 1.00 @ 25°C                                                                                                                                      |
| <b>Solubility(ies)</b>                              | Completely soluble in water.                                                                                                                       |
| <b>Partition coefficient</b>                        | Not determined.                                                                                                                                    |
| <b>Auto-ignition temperature</b>                    | Not applicable.                                                                                                                                    |
| <b>Decomposition Temperature</b>                    | Not applicable.                                                                                                                                    |
| <b>Viscosity</b>                                    | Not determined.                                                                                                                                    |
| <b>Explosive properties</b>                         | There are no chemical groups present in the product that are associated with explosive properties.                                                 |
| <b>Oxidising properties</b>                         | There are no chemical groups present in the product that are associated with oxidising properties.                                                 |
| <b>Comments</b>                                     | Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures. |

#### 9.2. Other information

|                          |                 |
|--------------------------|-----------------|
| <b>Other information</b> | Not determined. |
|--------------------------|-----------------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---------------------------------------------------------------------|

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulphurous gases (SO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 440.0

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

#### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

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

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### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Inhalation** Coughing, chest tightness, feeling of chest pressure.

**Ingestion** Gastrointestinal symptoms, including upset stomach.

**Skin contact** Causes skin irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact** Causes serious eye irritation.

**Route of exposure** Skin and/or eye contact

**Target organs** Eyes Skin

**Medical symptoms** Allergic rash. Skin irritation.

### Toxicological information on ingredients.

#### Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,100.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)**

**ATE oral (mg/kg)** 4,100.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,001.0

**Species** Rat

**ATE dermal (mg/kg)** 2,001.0

#### SODIUM LAUROYL SARCOSINATE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,001.0

**Species** Rat

**ATE oral (mg/kg)** 5,001.0

#### Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 53.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Estimated value.

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

|                                    |                                                                |
|------------------------------------|----------------------------------------------------------------|
| ATE oral (mg/kg)                   | 53.0                                                           |
| <u>Acute toxicity - dermal</u>     |                                                                |
| ATE dermal (mg/kg)                 | 300.0                                                          |
| <u>Acute toxicity - inhalation</u> |                                                                |
| ATE inhalation (vapours mg/l)      | 3.0                                                            |
| <u>Skin sensitisation</u>          |                                                                |
| Skin sensitisation                 | Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. |

### SECTION 12: Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** Not determined.

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not determined.

##### Ecological information on ingredients.

##### Alcohols, C12-C14 (even numbered), ethoxylated<2.5EO, sulphates, sodium salts

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 7.1 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 7.4 mg/l, Daphnia magna  
NOEC, 48 hours: 0.27 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 27 mg/l, Scenedesmus subspicatus

##### SODIUM LAUROYL SARCOSINATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 107 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 29.7 mg/l, Daphnia magna

##### Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.001 < L(E)C<sub>50</sub> ≤ 0.01

**M factor (Acute)** 100

**Acute toxicity - fish** Estimated value.  
LC<sub>50</sub>, 96 hours: 13 mg/l, Fish

##### Chronic aquatic toxicity

**NOEC** 0.0001 < NOEC ≤ 0.001

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

|                           |                        |
|---------------------------|------------------------|
| <b>Degradability</b>      | Non-rapidly degradable |
| <b>M factor (Chronic)</b> | 100                    |

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

## SECTION 14: Transport information

**General** For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### Special Provisions note

#### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT) )

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT) )

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT) )

#### 14.3. Transport hazard class(es)

**ADR/RID class** 9

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

ADR/RID classification code M6

IMDG class 9

ICAO class/division 9

Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

Tunnel restriction code (-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).  
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) (as amended).  
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 (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

**Guidance** Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## HR3 GLASS & MIRROR CLEANER CONCENTRATE

|                                                                 |                                                                                                           |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Abbreviations and acronyms used in the safety data sheet</b> | ATE: Acute Toxicity Estimate.                                                                             |
|                                                                 | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.                 |
|                                                                 | CAS: Chemical Abstracts Service.                                                                          |
|                                                                 | DNEL: Derived No Effect Level.                                                                            |
|                                                                 | EC <sub>50</sub> : 50% of maximal Effective Concentration.                                                |
|                                                                 | IATA: International Air Transport Association.                                                            |
|                                                                 | IMDG: International Maritime Dangerous Goods.                                                             |
|                                                                 | LC <sub>50</sub> : Lethal Concentration to 50 % of a test population.                                     |
|                                                                 | LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).                          |
|                                                                 | NOEC: No Observed Effect Concentration.                                                                   |
|                                                                 | PBT: Persistent, Bioaccumulative and Toxic substance.                                                     |
|                                                                 | PNEC: Predicted No Effect Concentration.                                                                  |
|                                                                 | REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. |
|                                                                 | UN: United Nations.                                                                                       |
|                                                                 | vPvB: Very Persistent and Very Bioaccumulative.                                                           |
| <b>Classification abbreviations and acronyms</b>                | Acute Tox. = Acute toxicity                                                                               |
|                                                                 | Aquatic Acute = Hazardous to the aquatic environment (acute)                                              |
|                                                                 | Aquatic Chronic = Hazardous to the aquatic environment (chronic)                                          |
|                                                                 | Eye Dam. = Serious eye damage                                                                             |
|                                                                 | Eye Irrit. = Eye irritation                                                                               |
|                                                                 | Skin Corr. = Skin corrosion                                                                               |
|                                                                 | Skin Irrit. = Skin irritation                                                                             |
| <b>Revision comments</b>                                        | Skin Sens. = Skin sensitisation                                                                           |
|                                                                 | NOTE: Lines within the margin indicate significant changes from the previous revision.                    |
|                                                                 |                                                                                                           |
|                                                                 |                                                                                                           |
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|                                                                 |                                                                                                           |
| <b>Hazard statements in full</b>                                | H301 Toxic if swallowed.                                                                                  |
|                                                                 | H311 Toxic in contact with skin.                                                                          |
|                                                                 | H314 Causes severe skin burns and eye damage.                                                             |
|                                                                 | H315 Causes skin irritation.                                                                              |
|                                                                 | H317 May cause an allergic skin reaction.                                                                 |
|                                                                 | H318 Causes serious eye damage.                                                                           |
|                                                                 | H319 Causes serious eye irritation.                                                                       |
|                                                                 | H331 Toxic if inhaled.                                                                                    |
|                                                                 | H400 Very toxic to aquatic life.                                                                          |
|                                                                 | H410 Very toxic to aquatic life with long lasting effects.                                                |
|                                                                 | H411 Toxic to aquatic life with long lasting effects.                                                     |
|                                                                 | H412 Harmful to aquatic life with long lasting effects.                                                   |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.