# **SAFETY DATA SHEET**



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

#### 1.1 Product identifier

Product name Alusol 32
Product code 464715-DE02
SDS no. 464715
Product type Liquid.

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

**Use of the substance/** Metalworking fluid - soluble.

mixture For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

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

Supplier Castrol Industrial

divisie van BP Europa SE - BP Nederland

Rivium Boulevard 301 2909 LK Capelle a/d IJssel

The Netherlands

Telephone Number: 010-2494434 Fax Number: 010-2494430

E-mail address MSDSadvice@bp.com

#### 1.4 Emergency telephone number

**EMERGENCY** Carechem: +44 (0) 1235 239 670 (24 hours)

TELEPHONE NUMBER Netherlands: NVIC 030 274 8888 (Only to inform medical personnel (physicians, veterinarians,

pharmacists) about symptoms and treatment of acute intoxications.)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

#### Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## 2.2 Label elements

**Hazard pictograms** 



Signal word Warning

**Hazard statements** H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

Response P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Storage Not applicable.

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# **SECTION 2: Hazards identification**

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label Contains 3-iodo-2-propynyl butylcarbamate and α,α',α"-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-

**elements** triethanol. May produce an allergic reaction.

**Special packaging requirements** 

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger

Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

Defatting to the skin.

## **SECTION 3: Composition/information on ingredients**

#### Substance/mixture

Mixture

Highly refined mineral oil, emulsifiers and additives.

#### Classification

Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Base oil - unspecified Amine neutralised carboxylic acids	Varies Not available.	>=25 - <35 >=10 - <20	Not classified. Xi; R36/38	Not classified. Skin Irrit. 2, H315 Eye Irrit. 2, H319	[2] [1]
2-(2-(2-butoxyethoxy) ethoxy)ethanol	REACH #: 01-2119475107-38 EC: 205-592-6 CAS: 143-22-6 Index: 603-183-00-0	<20	Xi; R41	Eye Dam. 1, H318	[1]
alcohols, C16-18 and C18-unsatd., ethoxylated	REACH #: 01-2119489407-26 EC: 500-236-9 CAS: 68920-66-1	>=1 - <5	Xi; R38	Skin Irrit. 2, H315 Aquatic Chronic 2, H411	[1]
Boric acid	REACH #: 01-2119486683-25 EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	<5.5	Repr. Cat. 2; R60, R61	Repr. 1B, H360FD (Fertility and Unborn child)	[1] [2]
carbonic acid, compound with 2-aminoethanol (1:2)	REACH #: 01-2119976326-28 EC: 244-600-2 CAS: 21829-52-7	>=3 - <7	Xn; R22	Acute Tox. 4, H302	[1]
ethanol, 2-butoxy-, manufacture of, by- products from	REACH #: 01-2119475115-41 EC: 310-287-7 CAS: 161907-77-3	<20	Xi; R41	Eye Dam. 1, H318	[1]
a,a',a"-Trimethyl-1,3, 5-triazine-1,3,5-(2H,4H, 6H)-triethanol	EC: 246-764-0 CAS: 25254-50-6	>=0.1 - <1	Xn; R20/22 Xi; R36/38 R43 R52	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
3-lodo-2-propynyl butylcarbamate	EC: 259-627-5 CAS: 55406-53-6	>=0.1 - <1	Xn; R20/22 Xi; R41, R37 R43 N; R50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 (Respiratory tract irritation) Aquatic Acute 1, H400	[1]

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

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# **SECTION 3: Composition/information on ingredients**

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before

reuse. Get medical attention.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms appear. In case of inhalation

of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

**Ingestion** To not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water if person is conscious. Get medical

attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

See Section 11 for more detailed information on health effects and symptoms.

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

media

Use foam or all-purpose dry chemical to extinguish.

**Unsuitable extinguishing** 

media

Do not use water jet.

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

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

Hazardous con products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO2 etc.)

5.3 Advice for firefighters

Special precautions for

fire-fighters

Fromptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective

equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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# **SECTION 6: Accidental release measures**

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

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Contact emergency personnel.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

# **6.2 Environmental precautions**

Woold dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

# 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

**Protective measures** 

Fut on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous. Avoid prolonged or repeated contact with skin. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid and as a result may induce allergic skin reactions. Evaporation of water from soluble cutting fluids during use may lead to an increase in concentration which may result in the development of skin conditions due to irritation and defatting. It is important to monitor fluid strength on a regular basis with a refractometer and maintain it at the recommended concentration. Lubricants from other sources and other contaminants should be minimised. Swarf and other debris should be removed.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Protect from freezing. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

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## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

### **Occupational exposure limits**

#### Product/ingredient name **Exposure limit values**

Base oil - unspecified MinSZW Wettelijke Grenswaarden (Netherlands).

OEL, 8-h TWA: 5 mg/m3 8 hours. Issued/Revised: 1/2007 Form: mist Boric acid ACGIH TLV (United States).

STEL: 6 mg/m3 15 minutes. Issued/Revised: 1/2005 Form: Inhalable

fraction

TWA: 2 mg/m<sup>3</sup> 8 hours. Issued/Revised: 1/2005 Form: Inhalable fraction

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

This product contains a preservative that may release trace amounts of formaldehyde during use.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived No Effect Level**

No DNELs/DMELs available.

#### **Predicted No Effect Concentration**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment

of the working conditions.

Safety glasses with side shields.

Eye/face protection **Skin protection** Hand protection

# General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of

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

a full assessment of the working conditions.

Wear suitable gloves. Recommended: Nitrile gloves.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

#### Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### **Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

#### Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

# **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.
Colour Amber.
Odour Mild

Odour threshold Not available.

**pH** 8.9 [Conc. (% w/w): 5%]

Melting point/freezing point Initial boiling point and boiling

range

Not available. >100°C (>212°F)

Flash point Closed cup: >100°C (>212°F) [Estimated. Water content interferes with flash point

determination.]

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or Not available.

explosive limits

Relative density

Vapour pressure
Vapour density

Not available. Not available. Not available.

**Density** <1000 kg/m³ (<1 g/cm³) at 20°C

Solubility(ies) Emulsifies in water.

Partition coefficient: n-octanol/ Not available.

water

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidising propertiesNot available.

## 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

No specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

**10.2 Chemical stability** The product is stable.

10.3 Possibility of hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid High temperatures

**10.5 Incompatible materials** Reactive or incompatible with the following materials: oxidising materials.

Slightly reactive or incompatible with the following materials: acids.

10.6 Hazardous Under normal conditions of storage and use, hazardous decomposition products should not be

decomposition products produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity estimates**

Route	ATE value
Oral	14881 mg/kg

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

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# **SECTION 11: Toxicological information**

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

IngestionIrritating to mouth, throat and stomach.Skin contactZauses skin irritation. Defatting to the skin.Eye contactNo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.

**Skin contact** Adverse symptoms may include the following:

irritation redness dryness cracking

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

General

Carcinogenicity

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

# **SECTION 12: Ecological information**

12.1 Toxicity

**Environmental hazards** Harmful to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

Expected to be biodegradable.

#### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition Not available.

coefficient (Koc)

Mobility Liquid. Emulsifies in water.

12.5 Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

Indiluted fluid Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Diluted Fluid The spent diluted fluid comprises a relatively stable emulsion. Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques (e.g. emulsion splitting, coagulation and filtration) approved by the local authority. Spent fluid should never be disposed of down the drain. The aqueous phase should not be discharged into sewage systems unless provided for by local regulations; the non-aqueous phase should be disposed of as undiluted fluid. Note that separated aqueous solutions or effluents may contain metal salts as well as traces of oil and must be checked for conformity in these respects against consents given by the authorities before disposal. Further treatment may be required.

# Hazardous waste Yes European waste catalogue (EWC)

Waste code	Waste designation
	mineral-based machining oils free of halogens (except emulsions and solutions) machining emulsions and solutions free of halogens

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

#### **Packaging**

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by dangerous substances

#### **Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for

Not available.

user

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# **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

**Toxic to reproduction** 

Ingredient name	Status	Reference number
Boric acid	Candidate	ED/30/2010

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, Not applicable.

**Other regulations** 

REACH Status The company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

**United States inventory** 

mixtures and articles

(TSCA 8b)

All components are listed or exempted.

Australia inventory (AICS)
Canada inventory

At least one component is not listed.
At least one component is not listed.

China inventory (IECSC)
Japan inventory (ENCS)

All components are listed or exempted. At least one component is not listed. At least one component is not listed.

Korea inventory (KECI) Philippines inventory

At least one component is not listed.

(PICCS)

**National regulations** 

15.2 Chemical Safety Assessment This product contains substances for which Chemical Safety Assessments are still required.

#### SECTION 16: Other information

**Abbreviations and acronyms** 

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DPD = Dangerous Preparations Directive [1999/45/EC]

DSD = Dangerous Substances Directive [67/548/EEC]

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

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#### **SECTION 16: Other information**

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative **H**302 Harmful if swallowed.

Full text of abbreviated H statements

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H318 Causes serious eve damage. H319 Causes serious eye irritation. H332

Harmful if inhaled. May cause respiratory irritation. (Respiratory tract irritation)

H335 (Respiratory tract

irritation)

May damage fertility. May damage the unborn child.

H360FD (Fertility and

Unborn child)

H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Full text of classifications Acute Tox. 4, H302 [CLP/GHS]

ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1 Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Repr. 1B, H360FD (Fertility TOXIC TO REPRODUCTION (Fertility and Unborn child) -

and Unborn child) Category 1B

SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2, H315

SKIN SENSITIZATION - Category 1 Skin Sens. 1, H317

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) STOT SE 3, H335

(Respiratory tract irritation) (Respiratory tract irritation) - Category 3

Full text of abbreviated R phrases

R60- May impair fertility.

R61- May cause harm to the unborn child.

R22- Also harmful if swallowed.

R20/22- Also harmful by inhalation and if swallowed.

R41- Risk of serious damage to eyes. R37- Irritating to respiratory system.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact. R50- Very toxic to aquatic organisms.

R52- Harmful to aquatic organisms.

**Full text of classifications** 

[DSD/DPD]

Repr. Cat. 2 - Toxic to reproduction category 2 Xn - Harmful

Xi - Irritant

N - Dangerous for the environment

**History** 

Date of issue/ Date of

03/06/2014.

revision

13/09/2013.

Date of previous issue Prepared by

**Product Stewardship** 

Indicates information that has changed from previously issued version.

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