# SAFETY DATA SHEET



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

1.1 Product identifier

Product name Alusol ABF 47

Product code 466973-DE52 SDS # 466973 Product type Liquid.

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

dentified uses

Handling and dilution of metal working fluid concentrates-Industrial Use of lubricants in high energy open processes-Industrial Use of lubricants in high energy open processes-Professional

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 Holdings Europe B.V.,

d'Arcyweg 76, 3198NA

Europoort Rotterdam

Castrol CEE sp z.o.o, UI. Grzybowska 62, 00 844 Warszawa

+48 (0)800 121 4817

E-mail address

MSDSadvice@bp.com

# 1.4 Emergency telephone number

EMERGENCY 112

TELEPHONE NUMBER Carechem: +44 (0) 1235 239 670 (24/7)
Poland Poison Center +48 22 582 65 80 (toxicology information)

#### 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]

Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

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

2.2 Label elements

**Hazard pictograms** 

<u>(i)</u>

Signal word Warning

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

**Hazard statements** ₱317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** 280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

P264 - Wash hands thoroughly after handling.

₹362 + P364 - Take off contaminated clothing and wash it before reuse. Response

> P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical attention.

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

contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

**Storage** Not applicable.

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

international regulations.

**Hazardous ingredients** 2-n-butyl-benzo[d]isothiazol-3-one

> 1,2-Benzisothiazol-3(2H)-one 3(2H)-Isothiazolone, 2-methyl-

Supplemental label elements

Not applicable.

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

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

#### **Special packaging requirements**

Containers to be fitted

with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Results of PBT and vPvB

assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006,

Annex XIII

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification Defatting to the skin.

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

#### 3.2 Mixtures

**Product definition** Mixture

Highly refined base oil (IP 346 DMSO extract <3%), emulsifiers and additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
rphenoxypropan-2-ol	REACH #: 01-2119486566-23 EC: 212-222-7 CAS: 770-35-4	≤10	Eye Irrit. 2, H319	-	[1]
sulphonic acids, petroleum, sodium salts	REACH #: 01-2119527859-22 EC: 271-781-5 CAS: 68608-26-4	≤5	Eye Irrit. 2, H319	-	[1]
Alcohols, C16-18 and C18-unsatd., ethoxylated	REACH #: 01-2119489407-26	≤5	Skin Irrit. 2, H315 Aquatic Chronic 2, H411	-	[1]

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

-		_					
2-(2-butoxyethoxy)ethanol	EC: 500-236-9 CAS: 68920-66-1 REACH #: 01-2119475104-44 EC: 203-961-6	≤5	Eye Irrit. 2, H319	-	[1] [2]		
2-Phenoxyethanol	CAS: 112-34-5 Index: 603-096-00-8 REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6	<3	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1394 mg/kg	[1] [2]		
2-n-butyl-benzo[d]isothiazol- 3-one	Index: 603-098-00-9 EC: 420-590-7 CAS: 4299-07-4 Index: 606-079-00-3	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10 M [Chronic] = 1	[1]		
1,2-Benzisothiazol-3(2H)-one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≤0.3	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C ≥ 0.036% M [Acute] = 1 M [Chronic] = 1	[1]		
3(2H)-Isothiazolone, 2-methyl-	REACH #: 01-2120764690-50 EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]		
See Section 16 for the full text of the H statements declared above							

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

**Type** 

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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. In the event of any complaints or symptoms, avoid further exposure. Get medical

attention.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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

Potential acute health effects

pressure.

**Ingestion** No known significant effects or critical hazards.

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

Skin contact Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction

#### Delayed and immediate effects as well as 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.

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

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing

nedia

media

Do not use water jet. The use of a water jet may cause the fire to spread by splashing the

burning product.

# 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** 

products

Combustion products may include the following:

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

metal oxide/oxides

sulphur oxides (SO, SO<sub>2</sub>, etc.)

#### 5.3 Advice for firefighters

Special precautions for

fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. 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.

# **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Contact 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.

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

Avoid 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 material 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.

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#### **SECTION 6: Accidental release measures**

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**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

Fut on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 8.1 Control parameters

Occupational exposure limits

Product/ingredient name

#### **Exposure limit values**

2-(2-butoxyethoxy)ethanol

Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended) (Poland).

TWA: 67 mg/m³ 8 hours. Issued/Revised: 8/2018 STEL: 100 mg/m³ 15 minutes. Issued/Revised: 8/2018

2-Phenoxyethanol

Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended) (Poland).

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

TWA: 230 mg/m<sup>3</sup> 8 hours. Issued/Revised: 8/2018

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.

**Recommended monitoring** procedures

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.

#### **Biological exposure indices**

Product/ingredient name

**Exposure indices** 

No exposure indices known.

**Derived No Effect Level** 

No DNELs/DMELs available.

**Predicted No Effect Concentration** 

No PNFCs 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** 

₩ash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary.

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.

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

**General Information:** 

Safety glasses with side shields.

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 a full assessment of the working conditions.

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

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.

#### **Refer to standards:**

Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405

Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387

# **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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state
Colour
Brown.

Odour
Characteristic.

Odour threshold
Melting point/freezing point
Initial boiling point and boiling

Liquid.
Brown.
Characteristic.
Not available.

▼100°C (>212°F)

range

Flammability Not available.

Lower and upper explosion Not available.

Lower and upper explosion limit

Flash point

pen cup: >100°C (>212°F) [DIN EN ISO 2592]

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method	
phenoxypropan-2-ol	480	896	DIN 51794	
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794	
2-Phenoxyethanol	500	932		

**Decomposition temperature** 

рΗ

9.4 [Conc. (% w/w): 5%]

Not available.

**Kinematic viscosity** 

**Solubility** 

Minematic: 218 mm²/s (218 cSt) at 20°C (DIN EN ISO 3104)

Media	Result
<b>w</b> ater	Miscible in water.

Partition coefficient n-octanol/ water (log value)

Vapour pressure

Not applicable.

	Vapou	Vapour Pressure at 20°C			Vapour pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
phenoxypropan-2-ol	0.0075	0.001	EU A.4				
2-(2-butoxyethoxy) ethanol	0.022	0.0029					
2-Phenoxyethanol	0.0075	0.001	EU A.4	0.13501	0.018	EU A.4	

**Density and/or Relative density** 

Relative vapour density

Particle characteristics

Not available.

₹1000 kg/m³ (<1 g/cm³) at 15°C

Median particle size Not applicable.

9.2 Other information

Evaporation rateNot available.Explosive propertiesNot available.Oxidising propertiesNot available.

# **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
 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** No specific data.

10.5 Incompatible materials Reactive or incompatible with the following materials: oxidising materials. Slightly reactive or incompatible with the following materials: acids.

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# **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

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

produced

# **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Product/ingredient name	Result / Route	Test authority / Number	Species	Dose	Exposure	Remarks
2-Phenoxyethanol	LD50 Dermal -	-	Rabbit	2251 to 3815 mg/kg	-	-
	LD50 Oral -	-	Rat - Female	1386 mg/kg	-	-

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Musol ABF 47	46842.5	N/A	N/A	N/A	84.7
2-Phenoxyethanol	1394	N/A	N/A	N/A	N/A
1,2-Benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
3(2H)-Isothiazolone, 2-methyl-	100	300	N/A	0.5	N/A

#### **Irritation/Corrosion**

Not available.

#### **Sensitiser**

Not available.

#### **GERM CELL MUTAGENICITY**

Not available.

#### Carcinogenicity

Not available.

# **Reproductive toxicity**

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result
Not available.	

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Conclusion/Summary Not available.

Information on likely routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

pressure.

**Ingestion** No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

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

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# **SECTION 11: Toxicological information**

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

pain or irritation watering redness

#### Delayed and immediate effects as well as 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

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### 11.2 Information on other hazards

# 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test authority / Test number	Species	Type / Result	Exposure	Effects	Remarks
-n-butyl-benzo[d] isothiazol-3-one	-	Daphnia	EC50 0.093 mg/l	48 hours	-	-

Environmental hazards Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>2</b> -phenoxyethanol	-	-	Readily

#### 12.3 Bioaccumulative potential

Not available.

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
-phenoxypropan-2-ol	1.41	-	Low
Alcohols, C16-18 and C18-unsatd., ethoxylated	4.2	-	High
2-(2-butoxyethoxy)ethanol	1	-	Low
2-phenoxyethanol	1.107	-	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Mobility Iquid. Miscible in water.

#### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting

Not available.

properties

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### **SECTION 12: Ecological information**

12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

Undiluted 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 hazardous 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.

References

Commission 2014/955/EU Directive 2008/98/EC

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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 14: Transport information**

14.7 Maritime transport in bulk according to IMO instruments

Not available.

# **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

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Musol ABF 47	95-100	3
2-(2-butoxyethoxy)ethanol	1-5	55 [Consumer paint]

Labelling 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** 

(TSCA 8b)

🍂 least one component is not listed.

Australia inventory (AIIC)

Canada inventory

China inventory (IECSC)

Japan inventory (CSCL)

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

(PICCS)

Not determined.

Taiwan Chemical Substances Inventory

(TCSI)

Not determined.

Explosive precursors Mot applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

References

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 (OJ. EU L 396 of 30 December 2006. and correcting Acts. Office. EU L 136 of 29 May 2007. with later. amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010. amending Regulation (EC) No 1907/2006 of the Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Act of 25 February 2011. chemical substances and mixtures (OJ U.11.63.322)

Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical substances and their mixtures (Journal of Laws 2012, item 1018)

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# SECTION 15: Regulatory information

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

# **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

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 = 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

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

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

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

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

Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,

64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN

01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN

01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN

01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN

01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN

01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,

64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN

01-2119474889-13

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
<b>E</b> ye Irrit. 2, H319		Calculation method
Skin Sens. 1, H317		Calculation method
Aquatic Chronic 3, H412		Calculation method
Full text of abbreviated H	<b>⊮</b> 301	Toxic if swallowed.
statements	H302	Harmful 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.
	H330	Fatal if inhaled.
	H335	May cause respiratory irritation.
	H400	Very toxic to aquatic life.

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

H410
 H411
 Very toxic to aquatic life with long lasting effects.
 Toxic to aquatic life with long lasting effects.
 EUH071
 Corrosive to the respiratory tract.

Full text of classifications
[CLP/GHS]

ACUTE TOXICITY - Category 2

ACUTE TOXICITY - Category 3

ACUTE TOXICITY - Category 3

ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1
Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

**History** 

Date of issue/ Date of 16/12/2024.

revision

Date of previous issue 30/08/2023.

Prepared by Product Stewardship

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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# Annex to the extended Safety Data Sheet (eSDS)

Industrial

#### Identification of the substance or mixture

Product definition Mixture

Code 466973-DE52

Product name Alusol ABF 47

**Section 1: Title** 

Short title of the exposure

List of use descriptors

scenario

Handling and dilution of metal working fluid concentrates - Industrial

Identified use name: Handling and dilution of metal working fluid concentrates-

Industrial

Process Category: PROC01, PROC02, PROC08b, PROC05

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC02

Specific Environmental Release Category: ATIEL-ATC SPERC 2.Ei.v1

Processes and activities covered by the exposure

scenario

Handling and dilution of metal working fluid concentrates. Includes associated product storage, material transfers, sampling and maintenance activities.

# Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

**Product characteristics:** 

Physical state: Liquid, vapour pressure < 0.5 kPa

Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated

differently)

Frequency and duration of use: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is

implemented

# Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Filling of equipment from drums or containers:

Avoid carrying out activities involving exposure for more than 4 hours per day.

Process sampling:

Avoid carrying out activities involving exposure for more than 4 hours per day.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours per day. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

Section 2.2: Control of environmental exposure

Amounts used: 3.02E+02 Tonnes/vear EU tonnage of risk determining substance

per year:

3.02E+02 Tonnes/year

Frequency and duration of use:

300 **Emission days** 

Environment factors not influenced by risk

management:

Local freshwater dilution factor 10 Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Water-based (oil in water emulsion) or straight oil (contains no water)

process

Release fraction to air (after typical onsite

RMMs)

5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

Release fraction to wastewater from process No data available

(after typical onsite RMMs and before

Technical conditions and measures at

sewage treatment plan)

Common practices vary across sites thus conservative process

release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions

process level (source) to prevent release:

and releases to soil:

Prevent discharge of undissolved substance to or recover from onsite wastewater

User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant

Do not apply industrial sludge to natural soils.

Organisational measures to prevent/limit

release from site:

Sewage sludge should be incinerated, contained or reclaimed.

Conditions and measures related to sewage

treatment plant:

**Estimated substance removal from** wastewater via on-site sewage treatment No data available

Assumed domestic sewage treatment plant

flow rate (m3/d)

2.00E+3

Maximum allowable site tonnage (Msafe) based on release following total wastewater

treatment removal as product:

No data available

Conditions and measures related to external

treatment of waste for disposal:

External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external

recovery of waste:

External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

**Exposure assessment (environment):** Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

**Exposure assessment (human):** The ECETOC TRA tool has been used to estimate workplace

exposures unless otherwise indicated.

Section 4: Guidance to check compliance with the exposure scenario

Alusol ABF 47 Handling and dilution of metal working fluid concentrates - Industrial

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Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



# Annex to the extended Safety Data Sheet (eSDS)

Industrial

#### Identification of the substance or mixture

Product definition Mixture

Code 466973-DE52

Product name Alusol ABF 47

**Section 1: Title** 

Short title of the exposure

scenario

Use of lubricants in high energy open processes - Industrial

List of use descriptors

Identified use name: Use of lubricants in high energy open processes-Industrial

Process Category: PROC01, PROC02, PROC08b, PROC17

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04

Specific Environmental Release Category: ATIEL-ATC SPERC 4.Fi.v1

Processes and activities covered by the exposure

scenario

Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities.

#### Section 2.1 Control of worker exposure

**Product characteristics:** 

Physical state: Liquid, vapour pressure < 0.5 kPa

Section 2 Operational conditions and risk management measures

Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated

differently)

Frequency and duration of use: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is

implemented

#### Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Filling of equipment from drums or containers:

No specific measures identified.

Metal machining operations:

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Operation and lubrication of high energy open equipment:

Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Automated metal rolling/forming Use in contained systems Operation is carried out at elevated temperature (> 20°C above ambient temperature):

No other specific measures identified.

Semi-automated metal rolling/forming Open systems Operation is carried out at elevated temperature (> 20°C above ambient temperature):

Provide extract ventilation to points where emissions occur.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Alusol ABF 47

Use of lubricants in high energy open processes - Industrial

#### Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance

per year:

2.05E+02 Tonnes/year

Frequency and duration of use:

**Emission days** 300

Environment factors not influenced by risk

management:

Local freshwater dilution factor 10 Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Water-based (oil in water emulsion) or straight oil (contains no water)

Release fraction to air (after typical onsite

RMMs)

5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process process level (source) to prevent release: release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Prevent discharge of undissolved substance to or recover from onsite wastewater

User sites are assumed to be provided with oil/water separators and

waste water to be discharged via a sewage treatment plant

Organisational measures to prevent/limit

release from site:

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

Assumed domestic sewage treatment plant

flow rate (m3/d)

2.00E+3

Maximum allowable site tonnage (Msafe) based on release following total wastewater

treatment removal as product:

Not available.

Conditions and measures related to external treatment of waste for disposal:

Conditions and measures related to external

recovery of waste:

External treatment and disposal of waste should comply with

applicable local and/or national regulations.

External recovery and recycling of waste should comply with

applicable local and/or national regulations.

#### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

**Exposure assessment (environment):** Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

**Exposure assessment (human):** The ECETOC TRA tool has been used to estimate workplace

exposures unless otherwise indicated.

#### Section 4: Guidance to check compliance with the exposure scenario

**Environment** Guidance is based on assumed operating conditions which may not

be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1),

additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH GES

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Use of lubricants in high energy open processes -Industrial

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Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# Annex to the extended Safety Data Sheet (eSDS)

**Professional** 

Identification of the substance or mixture

Product definition Mixture

Code 466973-DE52

Product name Alusol ABF 47

**Section 1: Title** 

Short title of the exposure

scenario

Use of lubricants in high energy open processes - Professional

List of use descriptors Identified use name: Use of lubricants in high energy open processes-Professional

Process Category: PROC01, PROC02, PROC08a, PROC17

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a

Specific Environmental Release Category: ATIEL-ATC SpERC 8.7c.v1

Processes and activities covered by the exposure

scenario

Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities.

# Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

**Product characteristics:** 

Physical state: Liquid, vapour pressure < 0.5 kPa

Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated

differently)

Frequency and duration of use: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is

implemented

#### Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Filling of equipment from drums or containers:

Avoid carrying out activities involving exposure for more than 1 hour per day.

Metal machining operations:

Provide extract ventilation to points where emissions occur.

Operation and lubrication of high energy open equipment:

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours per day. Wear a respirator conforming to EN140 with type A filter or better. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out activities involving exposure for more than 4 hours per day. Wear a respirator conforming to EN140 with type A filter or better. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

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Use of lubricants in high energy open processes - Professional

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Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance

per year:

2.05E+02 Tonnes/year

Frequency and duration of use:

**Emission days** 

365

Environment factors not influenced by risk

management:

Local freshwater dilution factor 10 Local marine water dilution factor 100

Other conditions affecting environmental

Negligible wastewater emissions as process operates without water

exposure:

Release fraction to air (after typical onsite

RMMs)

contact. 5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

1E-03

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

Technical conditions and measures at

sewage treatment plan)

Common practices vary across sites thus conservative process release estimates used.

process level (source) to prevent release: Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Prevent discharge of undissolved substance to or recover from onsite

wastewater.

Organisational measures to prevent/limit

release from site:

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

Assumed domestic sewage treatment plant

flow rate (m3/d)

2.00E+3

Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater

treatment removal as product:

Not available.

Conditions and measures related to external

treatment of waste for disposal:

External treatment and disposal of waste should comply with

applicable local and/or national regulations.

Conditions and measures related to external recovery of waste:

External recovery and recycling of waste should comply with applicable local and/or national regulations.

#### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Used ECETOC TRA model (May 2010 release). **Exposure assessment (environment):** 

Exposure estimation and reference to its source - Workers

**Exposure assessment (human):** The ECETOC TRA tool has been used to estimate workplace

exposures unless otherwise indicated.

#### Section 4: Guidance to check compliance with the exposure scenario

Guidance is based on assumed operating conditions which may not **Environment** be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH GES

Health Where other risk management measures/operational conditions are

adopted, then users should ensure that risks are managed to at least

equivalent levels.

Alusol ABF 47

Use of lubricants in high energy open processes -Professional

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