SAFETY DATA SHEET



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

1.1 Product identifier

Product name Hysol XF
Product code 455184-FR01
SDS no. 455184
Product type Liquid.

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

Use of the Metalworking fluid - soluble.

substance/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 Austria GmbH Nfg OHG

Industriezentrum NÖ-Süd, Straße 6

A-2355 Wiener Neudorf

Austria

Telefon: 02236 / 695 - 47000 Fax: 02236 / 695 - 48000 MSDSadvice@bp.com

E-mail address MSDSadvice@b

1.4 Emergency telephone number

EMERGENCY Carechem: +44 (0) 1235 239 670 (24/7)

TELEPHONE NUMBER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

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

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi; R36
Human health hazards Irritating to eyes.

Additional information Not classified as dangerous when diluted below 90%. See Section 16 for the full text of the R phrases or 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 symbol or symbols



Irritant

Indication of danger

Risk phrases R36- Irritating to eyes.

Safety phrases S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Supplemental label

elements

fastenings

Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

Defatting to the skin.

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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]	Type
Base oil - unspecified	Varies	25-35	Not classified.	Asp. Tox. 1, H304	[2]
Amine neutralised phosphoric acid esters	Not available.	5-10	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Polysulphides, di-tert- dodecyl	EC: 270-335-7 CAS: 68425-15-0	<25	R53	Aquatic Chronic 4, H413	[1]
Boric acid	EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	<5.5	Repr. Cat. 2; R60, R61	Repr. 1B, H360FD	[1]
N,N'- Methylenebismorpholine	EC: 227-062-3 CAS: 5625-90-1	<5	Xn; R22 C; R34 R52	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
1-octanol, 2-butyl-	EC: 223-470-0 CAS: 3913-02-8	<25	N; R50	Aquatic Acute 1, H400	[1]
Amine neutralised carboxylic acids	Not available.	1-5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Base oil - unspecified	Varies	1-5	Not classified.	Not classified.	[2]
Coolant lubricant	-	1-5	Not classified.	Not classified.	[2]
3-lodo-2-propynyl	EC: 259-627-5	0.1-1	Xn; R20/22	Acute Tox. 4, H302	[1]
butylcarbamate	CAS: 55406-53-6		Xi; R41 N; R50	Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400	
Isotridecanol	EC: 248-469-2 CAS: 27458-92-0	<1	Xi; R38 N; R50	Skin Irrit. 2, H315 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.

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

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 if irritation develops.

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 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. Get medical attention if symptoms occur. Wash out mouth with water if

person is conscious.

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

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide

extinguisher or spray.

Unsuitable extinguishing

nedia

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.

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SECTION 5: Firefighting measures

Hazardous combustion products

Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

metal oxide/oxides

nitrogen oxides (NO, NO2 etc.)

phosphorus oxides

sulphur oxides (SO₂, SO₃, 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.

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. Do not breathe vapour or mist. Ensure good 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).

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

Immediately contact emergency personnel. 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

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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. 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. Avoid prolonged or repeated contact with skin. 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. To maintain optimum performance and minimise bacterial spoilage, machine tool coolant systems should be cleaned on a regular basis.

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 and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Protect from freezing. 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. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

(Austria)

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SECTION 7: Handling and storage

Not suitable

Prolonged exposure to elevated temperature

7.3 Specific end use(s)

Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name

Exposure limit values

Base oil - unspecified MAK - Liste (Austria).

TWA: 5 mg/m3 8 hour(s). Form: Oil mist, mineral

Base oil - unspecified MAK - Liste (Austria).

TWA: 5 mg/m3 8 hour(s). Form: Oil mist, mineral

BMWA_MAK (Austria).

TWA: 20 mg/m3 8 hour(s). Form: Total vapour and aerosol

BMWA MAK (Austria).

TWA: 20 mg/m³ 8 hour(s). Form: Total vapour and aerosol

ACGIH TLVs

Coolant lubricant

Coolant lubricant

Base oil - unspecified ACGIH (United States).

TWA: 5 mg/m3 8 hour(s). Form: Mineral oil, mist

Boric acid ACGIH TLV (United States).

STEL: 6 mg/m3 15 minute(s). Issued/Revised: 1/2005 Form: Inhalable

fraction

TWA: 2 mg/m3 8 hour(s). Issued/Revised: 1/2005 Form: Inhalable

fraction

Base oil - unspecified ACGIH (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier. 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived No Effect Level

No DELs available.

Predicted No Effect Concentration

No PNEC available.

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours 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

Eye/face protection

Skin protection

Safety glasses with side shields.

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SECTION 8: Exposure controls/personal protection

Hand protection Wear protective gloves if prolonged or repeated contact is likely.

Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Skin and body Use of protective clothing is good industrial practice.

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.

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

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Liquid. Amber. Colour Mild Odour **Odour threshold** Not available.

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

Melting point/freezing point Initial boiling point and boiling

range

Not available. >100°C (>212°F)

<0 °C Pour point

Closed cup: >100°C (>212°F) Flash point

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

explosive limits

Vapour pressure Not available. Vapour density Not available. Relative density Not available.

Density <1000 kg/m3 (<1 g/cm3) at 15°C

Solubility(ies) Emulsifies in water. Partition coefficient: n-Not available.

octanol/water

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity Not available **Explosive properties** Not available **Oxidising properties**

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.

Under normal conditions of storage and use, hazardous polymerisation will not occur. 10.3 Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions 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.

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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 toxicological effects

Information on the likely

Routes of entry anticipated:Dermal, Inhalation.

routes of exposure

Potential acute health effects

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. May cause irritation to eyes, nose and throat due to exposure to

vapour, mists or fumes.

Ingestion No known significant effects or critical hazards.

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

Eye contact Irritating to eyes. Not classified as an eye irritant. Likely to cause transient stinging or redness

if accidental eye contact occurs.

Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.

Skin contact Adverse symptoms may include the following:

irritation dryness cracking

Eye contact Adverse symptoms may include the following:

irritation watering redness

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

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Potential chronic health effects

General

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis

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.

SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards Not classified as dangerous

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

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SECTION 13: Disposal considerations

liners may retain some product residues. Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers.

Hazardous waste European waste catalogue (EWC)

Waste code	Waste designation
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 09*	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 Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Recycle, if possible.

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/ADNR	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.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

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

Not applicable.

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

Other regulations

articles

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)

At least one component is not listed.

Australia inventory (AICS) All components are listed or exempted. **Canada inventory** At least one component is not listed. China inventory (IECSC) At least one component is not listed. Japan inventory (ENCS) At least one component is not listed. Korea inventory (KECI) At least one component is not listed. **Philippines inventory** At least one component is not listed.

(PICCS)

National regulations

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SECTION 15: Regulatory information

Limitation of the use of organic solvents

Permitted.

15.2 Chemical Safety **Assessment**

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

SECTION 16: Other information

Abbreviations and acronvms

ADN/ADNR = 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 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

Full text of abbreviated H statements

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation. Causes serious eye damage. H318 H319 Causes serious eye irritation. H332 Harmful if inhaled.

H360FD

May damage fertility. May damage the unborn child. H400

Very toxic to aquatic life.

H413 May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: INHALATION - Category 4 Acute Tox. 4, H332 AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 4 Aquatic Acute 1, H400 Aquatic Chronic 4, H413

ASPIRATION HAZARD - Category 1 Asp. Tox. 1, H304

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 TOXIC TO REPRODUCTION [Fertility and Unborn child] -

Category 1B

Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2, H315

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.

R34- Causes burns

R41- Risk of serious damage to eyes.

R36- Irritating to eyes. R38- Irritating to skin.

R36/38- Irritating to eyes and skin. R50- Very toxic to aquatic organisms. R52- Harmful to aquatic organisms.

R53- May cause long-term adverse effects in the aquatic environment.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Austria

SECTION 16: Other information

Full text of classifications Repr. Cat. 2 - Toxic to reproduction category 2

[DSD/DPD] C - Corrosive Xn - Harmful

C - Corrosive Xn - Harmful Xi - Irritant

N - Dangerous for the environment

History

Date of issue/ Date of

revision

24/02/2011.

Date of previous issue

No previous validation.
Product Stewardship

Prepared by

Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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