



CHO-BOND® 1035

Product code(s): 1035

SDS Revision Date (dd/mm/yyyy): 08/02/2013

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAK

Product identifier : **CHO-BOND® 1035**

Product Code(s) : 1035

SDS No. : PHC-082 EU

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

: Moisture cure adhesive / sealant.
Use pattern: professional use.

Details of the supplier of the safety data sheet:

Parker Hannifin France

SAS-Etablissement de Saint Ouen l'Aumône-PA du vert
Galant-6/8 avenue du Vert
Galant-95310 Saint Ouen l'Aumône-France

Chomerics Europe
Parker Hannifin Ltd., Seal Group
Unit 6 Century Point
Halifax Road, High Wycombe
Bucks, HP12 3SL
United Kingdom

Telephone : 033 (01) 34 32 39 00 (France); 044 (0) 1494 455 400 (UK)

Emergency Telephone Number
: 001-352-323-3500 (INFOTRAC)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

paste - grey. Mild odour.

Most important hazards: This preparation is not classified as dangerous according to Directive 1999/45/EC.

Label elements

This preparation is not classified as dangerous according to Directive 1999/45/EC. According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC.

Safety data sheet available for professional user on request.

Other hazards

Other hazards which do not result in classification:

May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released. When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde has shown limited evidence of a carcinogenic effect. Heating or fire can release toxic gas. May be mildly irritating to skin, eyes and respiratory system. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation. Inhalation of fumes may result in metal fume fever, a flu-like illness.

Environmental precautions: Not expected to be harmful to aquatic organisms. Avoid release to the environment.

PBT assessment: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

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Mixtures

Chemical nature of the preparation: Mixture - Inorganic substances in powdered form; silane compounds; Hydrocarbons.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	EU Classification
Silver metal	7440-22-4	231-131-3	< 10.0	None assigned. Substances for which there are Community workplace exposure limits.
Glass, oxide, chemicals	65997-17-3	266-046-0	< 70.0	None assigned.
Polydimethylsiloxane	70131-67-8	Polymer	3.0 - 7.0	Xi - Irritant; R36/37/38 (self classified)
Trimethoxymethylsilane	1185-55-3	214-685-0	< 5.0	F - Highly flammable; R11 Xi - Irritant; R36 (self classified)
m-Xylene	108-38-3	203-576-3	< 10.0	R10 Xn - Harmful; R20/21 Xi - Irritant; R38
Ethylbenzene	100-41-4	202-849-4	1.0 - 5.0	F - Highly flammable; R11 Xn - Harmful; R20
o-Xylene	95-47-6	202-422-2	< 10.0	R10 Xn - Harmful; R20/21 Xi - Irritant; R38
p-Xylene	106-42-3	203-396-5	< 10.0	R10 Xn - Harmful; R20/21 Xi - Irritant; R38
Possible decomposition products in case of hydrolysis are:				
acetic acid	64-19-7	200-580-7	Not known.	R10 C - Corrosive; R35
Methanol	67-56-1	200-659-6	Not known.	F - Highly flammable; R11 T - Toxic R23/24/25 - R39/23/24/25
The following ingredient is released from the product only when heated above 150°C:				
Formaldehyde	50-00-0	200-001-8	Not known.	T - Toxic; R23/24/25 C - Corrosive; R34 Xn - Harmful; Carc.Cat.3;R40 Xi - Irritant; R43

Note: May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Acetic acid, Methanol and Formaldehyde are not intentionally added to this product.

For the full text of the R phrases mentioned in this section, see Section 2 or 16.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation* : If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact* : Remove/Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- Eye contact* : Flush with plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

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Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to skin, eyes and respiratory system.
- Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.
- Inhalation of fumes may result in metal fume fever, a flu-like illness.
- When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde has shown limited evidence of a carcinogenic effect. Formaldehyde may cause sensitisation by skin contact.
- May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Methanol and Acetic acid are dangerous.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO₂); Dry chemical; Alcohol-resistant foam.

Unsuitable extinguishing media

- : May react with water.

Special hazards arising from the substance or mixture

- : During cure, vapours are released which may be harmful. May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; Metal oxides; silicon oxides; Hydrocarbons.

Advice for firefighters

Protective equipment for fire-fighters

- : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Wear suitable protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions

- : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Provide adequate ventilation. Wear suitable protective equipment. Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Keep away from heat. Protect from moisture. Keep away from acids and other incompatibles. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

- : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Specific end use(s)

- : Adhesive / Sealant.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
acetic acid	10 ppm (25 mg/m ³) (TWA)	European Union (OEL)	None.
	10 ppm (25 mg/m ³) (TWA)	France (OEL)	
	10 ppm (25 mg/m ³) (TWA)	Germany (OEL)	(exposure factor 2)
	10 ppm (25 mg/m ³) (TWA) 15 ppm (37 mg/m ³) (STEL)	Ireland (OEL)	None.
	15 mg/m ³ (TWA) 30 mg/m ³ (STEL)	Poland (OEL)	None.
	10 ppm (25 mg/m ³) (TWA) 15 ppm (37 mg/m ³) (STEL)	Spain (OEL)	None.
Ethylbenzene	100 ppm (442 mg/m ³) (TWA) 200 ppm (884 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	20 ppm (88.4 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	100 ppm (440 mg/m ³) (exposure factor 2) (TWA)	Germany (OEL)	Skin notation
	100 ppm (442 mg/m ³) (TWA) 200 ppm (884 mg/m ³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	200 mg/m ³ (TWA) 400 mg/m ³ (STEL)	Poland (OEL)	Skin notation
	100 ppm (441 mg/m ³) (TWA) 200 ppm (884 mg/m ³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	100 ppm (441 mg/m ³) (TWA) 125 ppm (552 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption

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Formaldehyde	0.5 ppm (TWA) 1 ppm (STEL)	France (OEL)	None.
	0.5 mg/m ³ (TWA) 1 mg/m ³ (STEL)	Poland (OEL)	Skin notation
	0.3 ppm (0.37 mg/m ³) (STEL)	Spain (OEL)	None.
	2 ppm (2.5 mg/m ³) (TWA) 2 ppm (2.5 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	None.
Glass, oxide, chemicals	None known.	European Union (OEL)	None.
Methanol	200 ppm (260 mg/m ³) (TWA)	European Union (OEL)	Possibility of significant uptake through the skin
	200 ppm (260 mg/m ³) (TWA) 1000 ppm (1300 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	200 ppm (270 mg/m ³ (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	200 ppm (260 mg/m ³) (TWA)	Italy (OEL)	Skin - Potential for cutaneous absorption
	100 mg/m ³ (TWA) 300 mg/m ³ (STEL)	Poland (OEL)	Skin notation
	200 ppm (266 mg/m ³) (TWA)	Spain (OEL)	Skin - Potential for cutaneous absorption
	200 ppm (266 mg/m ³) (TWA) 250 ppm (333 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption
m-Xylene	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	100 mg/m ³ (TWA)	Poland (OEL)	Skin notation
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (220 mg/m ³) (TWA) 100 ppm (441 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption
o-Xylene	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin

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	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	100 mg/m ³ (TWA)	Poland (OEL)	Skin notation
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (220 mg/m ³) (TWA) 100 ppm (441 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption
Polydimethylsiloxane	None known.	European Union (OEL)	None.
p-Xylene	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	France (OEL)	Risk of cutaneous absorption
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	100 mg/m ³ (TWA)	Poland (OEL)	Skin notation
	50 ppm (221 mg/m ³) (TWA) 100 ppm (442 mg/m ³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (220 mg/m ³) (TWA) 100 ppm (441 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	Potential for cutaneous absorption
Silver metal	0.1 mg/m ³ (TWA)	European Union (OEL)	None.
	0.1 mg/m ³ (TWA)	France (OEL)	None.
	0.1 mg/m ³ (inhalable) (TWA)	Germany (OEL)	(exposure factor 8)
	0.1 mg/m ³ (TWA)	Italy (OEL)	None.
	0.05 mg/m ³ (TWA)	Poland (OEL)	None.
	0.1 mg/m ³ (TWA)	Spain (OEL)	None.
	0.1 mg/m ³ (TWA)	The United Kingdom (The United Kingdom (WELs))	None.
Trimethoxymethylsilane	None known.	European Union (OEL)	None.

Note: May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Acetic acid, Methanol and Formaldehyde are not intentionally added to this product. The above exposure limits are provided for safety reasons.

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Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection

- : Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection

- : Wear as appropriate: Safety glasses with side-shields conforming to EN166

Other protective equipment

- : Chemical resistant apron. Safety boots per regulations. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

- : Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance : paste - grey

Odour : mild

Odour threshold : No information available.

pH : No information available.

Flash point : None.

Flashpoint (Method) : No information available.

Lower flammable limit (% by vol.)

: No information available.

Upper flammable limit (% by vol.)

: No information available.

Flammability (solid, gas) : Not applicable.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Oxidizing properties : None known.

Explosive properties : Not expected to be sensitive to mechanical impact or static discharge.

Initial boiling point and boiling range

: No information available.

Melting/Freezing point : No information available.

Relative density : 2.0

Solubility in water : insoluble May react with water.

Other solubility(ies) : No information available.

Vapour pressure : No information available.

Vapour density : Heavier than air.

Partition coefficient: n-octanol/water

: No information available.



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Viscosity : No information available.

Evaporation rate (BuAe = 1) : No information available.

Other Information

Volatiles (% by weight) : < 12%

Volatile organic Compounds (VOC's)
: 145 g/L

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released.

Chemical stability : Stable under normal conditions. When heated above 150°C in air, may release formaldehyde gas.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Avoid moisture. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials : Water; Oxidizing agents; Strong acids; Bases.

Hazardous decomposition products

: Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; metal oxides; silicon oxides; Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Irritation : According to the classification criteria of the European Union, this product is not considered as being an irritant.

Corrosivity : According to the classification criteria of the European Union, this product is not considered as being a corrosive material.

Sensitisation : According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

Mutagenicity : Contains no ingredient listed as a mutagen.

Carcinogenicity : Contains no ingredient listed as a carcinogen.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde has shown limited evidence of a carcinogenic effect.

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction.

Repeated dose toxicity : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated doses.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Silver metal	No information available.	> 2000 mg/kg	No information available.
Glass, oxide, chemicals	No information available.	No information available.	No information available.
Polydimethylsiloxane	No information available.	No information available.	No information available.
Trimethoxymethylsilane	No information available.	12,300 µL/kg	> 10 mL/kg
m-Xylene	7330 ppm (31.8 mg/L)	5011 mg/kg	12,130 mg/kg
Ethylbenzene	4000 ppm	3500 mg/kg	15,380 mg/kg
o-Xylene	5305 ppm (23 mg/L)	3580 mg/kg	3160 - 5010 mg/kg
p-Xylene	5992 ppm (25.7 mg/L)	4020 mg/kg	No information available.
Possible decomposition products in case of hydrolysis are:			
acetic acid	4653 ppm (rat) 2810 ppm (mouse)	3310 mg/kg	1060 mg/kg
Methanol	64,000 ppm	5628 mg/kg	15,800 mg/kg
The following ingredient is released from the product only when heated above 150°C:			
Formaldehyde	287 ppm	800 mg/kg	300 mg/kg

Routes of exposure

: Eye contact; Skin contact; Inhalation; Ingestion.

Effects of acute exposure

: Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema.

Skin contact: Direct skin contact may cause slight or mild, transient irritation.

Eye contact: May cause mild eye irritation.

Ingestion: May cause irritation of the mucous membranes.

Potential Chronic Health Effects

: Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

Other important hazards

: Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact. May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Methanol and Acetic acid are dangerous.

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SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. May slowly hydrolyze in the presence of water to Methanol and Acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released. Other ingredients which may be harmful: Ethylbenzene; p-Xylene; m-Xylene; o-Xylene.
- The acute toxicity of ethylbenzene is (IUCLID):
Toxicity to fish - LC50/96h/Fathead minnows = 12.1 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 1.8 - 2.4 mg/L
Toxicity to algae - EC50/72h/algae = 4.6 mg/L
- The acute toxicity of p-Xylene is (OECD SIDS):
Toxicity to fish - LC50/96h/rainbow trout = 2.6 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 8.5 mg/L
Toxicity to algae - EC50/72h/algae = 3.2 mg/L
- The acute toxicity of m-Xylene is (OECD SIDS):
Toxicity to fish - LC50/96h/rainbow trout = 8.4 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 9.56 mg/L
Toxicity to algae - EC50/72h/algae = 4.9 mg/L
- The acute toxicity of o-Xylene is (OECD SIDS):
Toxicity to fish - LC50/96h/rainbow trout = 7.6 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 3.2 mg/L
Toxicity to algae - EC50/72h/algae = 4.7 mg/L
- Persistence and degradability** : The product itself has not been tested. Contains: Ethylbenzene; p-Xylene; m-Xylene; o-Xylene.
Ethylbenzene, m-Xylene, p-Xylene and o-Xylene are considered to be inherently biodegradable.
- Bioaccumulation potential** : The product itself has not been tested. Contains: Ethylbenzene; p-Xylene; m-Xylene; o-Xylene.
The log Pow for Ethylbenzene is 3.15.
m-Xylene, p-Xylene and o-Xylene have Bioconcentration Factors (BCF) of 14.8, 15 and 50, respectively.
- Mobility in soil** : The product itself has not been tested.
- Results of PBT and vPvB assessment** : This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
- Other Adverse Environmental effects** : None known.
- Water contaminating class (Germany)** : 2 (self classified)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
- Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ADR/RID	None	not regulated	Not regulated	none	
EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None	Not regulated.	Not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15. REGULATORY INFORMATION

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

- : 1. Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.
- : 2. Classification according to European directive on classification of hazardous preparations 1999/45/EC.
- : 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
- : 4. In accordance with the legislation of the United Kingdom.
- : 5. German legislation on water endangering substances VwVwS (see Section 12) .

Chemical safety assessment : A chemical safety assessment has not been carried out by the Manufacturer of this product.



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SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
EC: European Community
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial chemical Substances
EN: European Standard
EU: European Union
HSDB: Hazardous Substances Data Bank
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
OEL: National occupational exposure limits
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2013 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2013.
4. European Chemicals Agency, Classification Legislation, 2013.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.

Preparation Date (dd/mm/yyyy)

: 27/08/2009

Reviewed Date SDS (dd/mm/yyyy)

: 08/02/2013

Revision No.

: 2

Revision Information

: (M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
3. HAZARDS IDENTIFICATION;
4. FIRST AID MEASURES;
6. ACCIDENTAL RELEASE MEASURES;
7. HANDLING AND STORAGE;
9. PHYSICAL AND CHEMICAL PROPERTIES;
10. STABILITY AND REACTIVITY;
11. TOXICOLOGICAL INFORMATION;
14. TRANSPORT INFORMATION;
15. REGULATORY INFORMATION



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R-Phrases (Full text) :

- R10 - Flammable.
- R11 - Highly flammable.
- R20 - Harmful by inhalation.
- R20/21 - Harmful by inhalation and in contact with skin.
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- R34 - Causes burns.
- R35 - Causes severe burns.
- R36 - Irritating to eyes.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R38 - Irritating to skin.
- R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R40 - Limited evidence of a carcinogenic effect.
- R43 - May cause sensitization by skin contact.

Refer to section 2 for additional R phrases not listed here.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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