



Safety Data Sheet according to
Regulation (EC) 'No. 2015/830



SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier	10HTS70001	Revision Date:	02/11/2020
Product Name:	THERMALINE HEAT SHIELD - A	Supersedes Date:	28/10/2019
		Version Number:	4

1.2 Relevant identified uses of the substance or mixture and uses advised against Base component of 2 components coating - Industrial use. Advised against: Please see Technical Data Sheet.

Product to be mixed with: THERMALINE HEAT SHIELD - B
**Mixing ratio by volume Part A/
 Part B:** 10 / 0.35

1.3 Details of the supplier of the safety data sheet

Manufacturer: Carboline Italia, S.p.a.
 Via Margherita Vigano' De Vizzi . n 77
 20092 Cinisello Balsamo (MI)
 Italy

Regulatory / Technical Information:
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1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)
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SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Flammable Liquid, category 3
 Aspiration Hazard, category 1

H226
 H304

Skin Irritation, category 2	H315
Eye Irritation, category 2	H319
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 3	H412

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

ethylbenzene, hydrocarbons, c10, aromatics, <1% naphthalene, xylene

HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310+331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P337+313	If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

<u>CAS-No.</u>	<u>EINEC No.</u>	<u>Name According to EEC</u>	<u>%</u>
1330-20-7	215-535-7	xylene	10 - <25
100-41-4	202-849-4	ethylbenzene	2.5 - <10
7429-90-5	231-072-3	aluminium powder (stabilised)	2.5 - <10
1189173-42-9	918-811-1	hydrocarbons, c10, aromatics, <1% naphthalene	2.5 - <10
110-43-0	203-767-1	Heptan-2-one	1.0 - <2.5
108-88-3	203-625-9	toluene	0.1 - <1.0

<u>CAS-No.</u>	<u>REACH Reg No.</u>	<u>CLP Symbols</u>	<u>CLP Hazard Statements</u>	<u>M-Factors</u>
1330-20-7	01-2119488216-32	GHS02-GHS07-GHS08	H226-304-312-315-319-332-335-373	
100-41-4	01-2119489370-35	GHS02-GHS07-GHS08	H225-304-332-373-412	
7429-90-5	01-2119529243-45	GHS02	H228-261	
1189173-42-9	01-2119463583-34	GHS07-GHS08-GHS09	H304-336-411	
110-43-0	01-2119902391-49	GHS02-GHS07	H226-302-332-336	
108-88-3	01-2119471310-51	GHS02-GHS07-GHS08	H225-304-315-336-361d-373-412	

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

AFTER INGESTION: If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

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

Danger of serious damage to health by prolonged exposure. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas. Flash back possible over considerable distance. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Keep containers dry and tightly closed to avoid moisture absorption and contamination. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid moisture. Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from: oxidising materials, acids, and alkalis. Store in upright position only. Storage of flammable liquids.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection**8.1 Control parameters****Ingredients with Occupational Exposure Limits (EU)**

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
xylene	1330-20-7	50	100	442	221
ethylbenzene	100-41-4	100	200	884	442
aluminium powder (stabilised)	7429-90-5				
hydrocarbons, c10, aromatics, <1% naphthalene	1189173-42-9		15		
Heptan-2-one	110-43-0	50	100	475	238
toluene	108-88-3	50	100	384	192

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
xylene	1330-20-7	
ethylbenzene	100-41-4	
aluminium powder (stabilised)	7429-90-5	
hydrocarbons, c10, aromatics, <1% naphthalene	1189173-42-9	

Heptan-2-one	110-43-0
toluene	108-88-3

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Use compressed air or fresh air breathing apparatus in closed compartments. Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust).

EYE PROTECTION: If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Nitrile rubber. Viton®. Recommended glove material for mixed product: Protective gloves complying with EN 374: Nitril rubber. Viton®.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

Chemical Name:

xylene

EC No.:
215-535-7

CAS-No.:
1330-20-7

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							1.6 mg/kg bw/day
Inhalation	289 mg/m ³	289 mg/m ³		77 mg/m ³	174 mg/m ³	174 mg/m ³		14.8 mg/m ³
Dermal				180 mg/kg bw/day				108 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.327 mg/L
Fresh water sediments	12.46 mg/kg
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6.58 mg/L
soil (agricultural)	2.31 mg/kg
Air	

Chemical Name:

ethylbenzene

EC No.:

202-849-4

CAS-No.:

100-41-4

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							1.6 mg/kg bw/day
Inhalation	293 mg/m ³ irritation (respiratory tract)			77 mg/m ³				15 mg/m ³
Dermal				180 mg/kg bw/day				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	100 µg/L
Fresh water sediments	13.7 mg/kg sediment dw
Marine water	10 - 100 µg/L
Marine sediments	1.37 mg/kg sediment dw
Food chain	
Microorganisms in sewage treatment soil (agricultural)	2.68 mg/kg soil dw
Air	

Chemical Name:

hydrocarbons, c10, aromatics, <1% naphthalene

EC No.:

918-811-1

CAS-No.:

1189173-42-9

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							7.5 mg/kg bw/day
Inhalation				151 mg/m ³				32 mg/m ³
Dermal				12.5 mg/kg bw/day				7.5 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment soil (agricultural)	
Air	

Chemical Name:

Heptan-2-one

EC No.:

203-767-1

CAS-No.:

110-43-0

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							23.32 mg/kg bw/day
Inhalation		1516 mg/m ³		394.25 mg/m ³				84.31 mg/m ³
Dermal				54.27 mg/kg bw/day				23.32 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	98.2 µg/L
Fresh water sediments	1.89 mg/kg sediment dw
Marine water	9.82 µg/L
Marine sediments	189 µg/kg sediment dw
Food chain	
Microorganisms in sewage treatment soil (agricultural)	321 µg/kg soil dw
Air	

Chemical Name:

toluene

EC No.:

203-625-9

CAS-No.:

108-88-3

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							8.13 mg/kg bw/day
Inhalation	384 mg/m ³	384 mg/m ³	192 mg/m ³	192 mg/m ³	226 mg/m ³	226 mg/m ³	56.5 mg/m ³	56.5 mg/m ³
Dermal				384 mg/kg bw/day				226 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.68 mg/L
Fresh water sediments	16.39 mg/kg
Marine water	0.68 mg/L
Marine sediments	16.39 mg/kg
Food chain	
Microorganisms in sewage treatment soil (agricultural)	13.61 mg/L
Air	2.89 mg/kg

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Appearance:	Grey
Physical State	LIQUID
Odor	Solvent

Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	136 - 200
Flash Point, (°C)	27
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	1.0 - 8.0
Vapour Pressure	Not determined
Vapour density	>1 (air = 1)
Relative density	1.37
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	393
Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	408.00
Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.	
Specific Gravity (g/cm ³)	1.37

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No reactivity hazards known under recommended storage and use conditions.

10.4 Conditions to avoid

Avoid moisture. Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Contact with water liberates hydrogen gas. Keep away from strong oxidising agents and strongly acid or alkaline materials.

10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen (NO_x).

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:**Oral LD50:** No information available on the product itself as the product is not tested.**Inhalation LC50:** No information available on the product itself as the product is not tested.**Irritation:** Irritating to eyes and skin.**Corrosivity:** No information available.**Sensitization:** No information available.**Repeated dose toxicity:** No information available.**Carcinogenicity:** No information available.**Mutagenicity:** No information available.**Toxicity for reproduction:** No information available.**STOT-single exposure:** No information available.**STOT-repeated exposure:** Central nervous system depression.**Aspiration hazard:** May be fatal if swallowed and enters airways.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
1330-20-7	xylene	>2000 mg/kg (oral-rat)	1100 mg/kg (ATE dermal-rabbit)	11 mg/L (ATE inh/ vapour)	4500 ppmV (ATE inh -Gas)	1.5 mg/L (ATE inh/dust/mist)
100-41-4	ethylbenzene	3500 mg/kg rat, oral	>20000 mg/kg bw (rabbit)	17.2 mg/L (rat/4h/ vapour); 4000 ppm, rat, 4h	10000 ppm	1.5 mg/L
7429-90-5	aluminium powder (stabilised)	15900 mg/kg bw (rat)	No information	No information	No information	>5 mg/L (4h: rat-dust/mist)
1189173-42-9	hydrocarbons, c10, aromatics, <1% naphthalene	>7050 mg/kg (LD50, oral, rat)	>2000 mg/Kg (LD50, Dermal, rabbit)	>4688 mg/m3 (LC50, Vapor, rat)	No information	No information
110-43-0	Heptan-2-one	1670 mg/kg (oral-rat)	10206 mg/kg (dermal-rabbit)	2000 ppm / 4 hours	No information	No information
108-88-3	toluene	5580 mg/kg (oral, rat)	>5000 mg/kg (dermal, rabbit)	28.1 mg/L (4hrs, rat, inhal., vapor)	No information	No information

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Respiration of solvent vapour may cause dizziness. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Chronic exposure causes drying effect on the skin and eczema. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. CNS depressant. Inhalation is the main hazard in industrial use. The solvent vapours can be harmful and cause headaches, nausea, and intoxication. Acts as a defatting agent on skin.

SECTION 12: Ecological Information

12.1 Toxicity:	
EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information
12.2 Persistence and degradability:	No information
12.3 Bioaccumulative potential:	No information
12.4 Mobility in soil:	No information
12.5 Results of PBT and vPvB assessment:	The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.
12.6 Other adverse effects:	No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
1330-20-7	xylene	165 mg/L (Daphnia magna 24h)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrochirus), 21.0 mg/L (Pimephales promelas)
100-41-4	ethylbenzene	No information	No information	5.1 mg/L (Atlantic silverfish)
1189173-42-9	hydrocarbons, c10, aromatics, <1% naphthalene	>=3-<=10 mg/L (Daphnia magna)	>=1-<=3 mg/L (Pseudokirchneriella subcapitata)	>=2-<=5 mg/L (Oncorhynchus mykiss)
110-43-0	Heptan-2-one	No information	75.5 mg/L, OECD Guideline 201 (Alga, Growth Inhibition Test) Pseudokirchneriella subcapitata	131 mg/L (Pimephales promelas)
108-88-3	toluene	3.78 mg/L (Ceriodaphnia dubia)	10 mg/L OECD Guideline 201 (Algae, Growth Inhibition Test)	5.5 mg/L (Oncorhynchus kisutch)

SECTION 13: Disposal Considerations

- 13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

European Waste Code: 08 01 11*
Packaging Waste Code: 15 01 10*

SECTION 14: Transport Information

14.1	UN number	UN1263
14.2	UN proper shipping name	PAINT
	Technical name	Not applicable
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	III
14.5	Environmental hazards	Marine Pollutant: NO
14.6	Special precautions for user	Not applicable
	EmS-No.:	F-E, <u>S-E</u>
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National Regulations:**

Denmark Product Registration Number:	Not available
Danish MAL Code:	Not available
Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
Germany WGK Class:	2
Directive 2004/42/CE :	500 g/L (subcat j)
Covered by Directive 2012/18/EC (Seveso III):	P5c
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Entry 48

Annex XIV - Authorisation List:**CAS-No. Name According to EEC**

Not Applicable

SVHC - Substances of very high concern (Candidate List):**CAS-No. Name According to EEC**

Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gas.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
 European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
 European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m ³	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram

N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.