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complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

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

1.1 Product identifier

Trade name: U-PRIMER 130
UFI: X7SG-JFJ7-M61A-Y8F7

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

No further relevant information available.
Application of the substance / the mixture: One-component adhesion promoter for the automotive industry.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
PENETRON HELLAS S.A.
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE
TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.

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Hazard pictograms:

GHS02 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labelling:
methyl ethyl ketone
4,4'-methylenediphenyl diisocyanate
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Hazard statements:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336 May cause drowsiness or dizziness.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

*
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:		
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	methyl ethyl ketone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥62-<66%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32-XXXX	Carbon black substance with a Community workplace exposure limit	≥15-<16.5%

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CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≥0.89-<1%
CAS: 4098-71-9 EINECS: 223-861-6 Index number: 615-008-00-5 Reg.nr.: 01-2119490408-31-XXXX	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate isophorone di-isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Carc. 2, H351; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥0.44-<0.5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Take affected persons out into the fresh air.
Seek immediate medical advice.

After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment in case of complaints.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
In case of skin irritation, consult a physician.

After eye contact:
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses.
Continue to rinse for at least 10 minutes.
Get medical attention if irritation occurs.
Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Carbon dioxide, foam, chemical powder. For losses and product leaks that are not burned, it can be used water spray jet to disperse flammable vapors and protect carers to inhibit leakage.
For safety reasons unsuitable extinguishing agents:
Water with full jet
Do not use water pressure. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
5.2 Special hazards arising from the substance or mixture
It may create overpressure in containers exposed to fire with explosion hazard. Do not breathe combustion products.
5.3 Advice for firefighters
Protective equipment:
Mouth respiratory protective device.
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
General Information:
Use water jets to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
Equipment:
Normal clothing for firefighting, including a breathing open-circuit compressed air breathing apparatus (EN 137), fireproof clothing (EN469), fire-proof gloves (EN 659) and boots Firefighters (HO A29 or A30).
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation.
Avoid contact with spilled material.
If contact with hot product is anticipated, gloves should be heat resistant and thermally insulated.
Avoid contact with skin and eyes.
6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Prevent seepage into sewage system, workpits and cellars.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Send for recovery or disposal in suitable receptacles.
6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Handle with care. Avoid jolting, friction and impact.
Avoid contact with skin, eyes and clothing.
Information about fire - and explosion protection:


Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Flammable gas-air mixtures may form in empty receptacles.
Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.
7.2 Conditions for safe storage, including any incompatibilities
Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Keep only the original container or in a suitable container for this kind of product
Provide ventilation for receptacles.
Information about storage in one common storage facility: Store away from flammable substances.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 78-93-3 methyl ethyl ketone	
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm
CAS: 1333-86-4 Carbon black	
WEL (Great Britain)	Short-term value: 7 mg/m³ Long-term value: 3.5 mg/m³

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CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

DNELs
(CAS: 78-93-3) butanone
workers
Chronic, systemic, Skin : 1161 mg/kg
Chronic, systemic, inhalation : 600 mg/m³
Consumers
Chronic, systemic, oral: 31 mg/kg
Chronic, systemic, Skin: 412 mg/kg
Chronic, systemic,Inhalation dialogue: 106 mg/m³
PNECs
(CAS: 78-93-3) butanone
Normal value in fresh water 55,8 mg/l
Normal value for fresh water sediment 284,74 mg/kg
Normal value for marine water sediment 284,7 mg/kg
Normal value for water, intermittent release 55,8 mg/l
Normal value of STP microorganisms 709 mg/l
Normal value for the terrestrial compartment 22,5 mg/kg

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use of local ventilation is advised.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink or smoke while using the product.
Do not breathe vapours or mists.
Be sure to clean skin thoroughly after work and before breaks.
The usual precautionary measures are to be adhered to when handling chemicals.

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Respiratory protection:

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Use working clothes with long sleeves and safety footwear for professional use category I (ref. Community Directive 89/686 / CEE and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Black
Odour:	typical of solvent
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	80 °C
Flammability	Not applicable

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Lower and upper explosion limit	
Lower:	0.8 Vol %
Upper:	11.5 Vol %
Flash point:	-10 °C (DIN 51755)
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20 °C:	150 hPa
Density and/or relative density	
Density at 20 °C:	0.92-0.96 g/cm³ (ISO 1183-1 A)
Relative density	Not determined
Vapour density at 20 °C	2.5 g/cm³
9.2 Other information	VOC (Directive 2010/75 / EC): 61,91% - 588,10 g/l VOC (volatile carbon): 43,26 % - 406,65 g/l
Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	400 °C
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Cloud point / clarification point:	
Oxidising properties	No data available
Evaporation rate	Not determined
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

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Desensitised explosives Void

SECTION 10: Stability and reactivity

10.1 Reactivity
Butanone: reacts with light metals, aluminum and strong oxidants. It attacks on different types of plastic. It breaks through the heat.

DIFAINYLMETHANE-4,4'-DIEOXYANATE
It is decomposed at 274 ° C / 525 ° F.

With water, it forms carbon dioxide and forms an insoluble polymeric solid and, therefore, any liquid material that may be recovered must be stored in open containers.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided
To avoid thermal decomposition do not overheat.
Stable at environment temperature.
10.3 Possibility of hazardous reactions
The vapours may also form explosive mixtures with the air.
Butanone: in contact with air, light and oxidizing agents can give entry peroxide. Explosion hazard after contact with: hydrogen peroxide and nitric acid, hydrogen peroxide and sulfuric acid. Can react dangerously with: oxidising agents, trichloromethane, alkalis. 0imiourgei explosive mixtures with air.
DIFAINYLMETHANE-4,4'-DIEOXYANATE
It can react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water, strong acids, strong bases.
10.4 Conditions to avoid
Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any ignition source.

Butanone
Avoid exposure to: heat sources.
10.5 Incompatible materials
Oxidizing agents
Butanone: strong oxidizers, inorganic acids, ammonia, copper and chloroform.
10.6 Hazardous decomposition products
In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.
DIFAINYLMETHANE-4,4'-DIEOXYANATE
It may form: oxides of nitrogen, carbon oxides, hydrocyanic acid.

*

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Inhalative	LC50/4 h (vapour)	>600-≤682 mg/l

CAS: 78-93-3 methyl ethyl ketone		
Oral	LD50	3,300 mg/kg (rat)

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Dermal	LD50	5,000 mg/kg (rabbit)
CAS: 1333-86-4 Carbon black		
Oral	LD50	>8,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	>27 mg/l (rat)
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation
Potentially irritant
Causes serious eye irritation.
Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure
The product is classified as Specific Target Organ Toxicity after single exposure Category 3
May cause drowsiness or dizziness.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Sensitisation Sensitization possible through skin contact
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

*
SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
Butanone:
LC50 - for Fish 2993 mg/l/96h Pimephales promelas
EC50 - for Crustacea 308 mg/l/48h Daphnia magna

CAS: 1333-86-4 Carbon black	
EC50 (72h)	>10,000 mg/l (ssu)
LC50 (96h)	>1,000 mg/l (Brachydanio rerio)
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
EC50	>1,000 mg/l (daphnia magna) (Daphnia magna Reproduction Test)
EC50 (72h)	>1,640 mg/l (ssu) (Freshwater Alga and Cyanobacteria, Grow Inhibition)
LC50 (96h)	>1,000 mg/l (Danio rerio) (Fish, Acute Toxicity Test)
NOEC (21d)	>10 mg/l (Daphnia magna) (Daphnia sp. Acute Immobilisation Test)

12.2 Persistence and degradability
4-4'-methylenediphenyl diisocyanate
Water solubility. mg/l 0,1 - 100

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Not redily biodegradable
Butanone
Water solubility. > 10000 mg/l
Readily biodegradable
12.3 Bioaccumulative potential
4-4'-methylenediphenyl diisocyanate
LogKow= 4.51
Butanone
LogKow=0.3
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations
Contact manufacturer for recycling information.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA UN1139
14.2 UN proper shipping name
ADR 1139 COATING SOLUTION
IMDG, IATA COATING SOLUTION
14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 3 Flammable liquids.
Label 3
14.4 Packing group
ADR, IMDG, IATA II
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Warning: Flammable liquids.
Hazard identification number (Kemler code): 33

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EMS Number: F-E,S-E
14.7 Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information:

ADR
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
Transport category 2
Tunnel restriction code D/E

IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation": UN1139, COATING SOLUTION, 3, II

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.
Seveso category P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 74

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Relevant phrases
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Department issuing SDS:

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REACH & Chemical Services Department
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Version number of previous version: 6

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**