

Safety Data Sheet

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in accordance with HSNO

Printing date: 02.06.2020

Version no. 2

Revision date: 02.06.2020

1 Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name: EN 8150 BUMPER TEXTURE BLACK 400ml**
- **Article number:** 695
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC8 Biocidal products
- **Process category**
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- **Environmental release category** ERC2 Formulation into mixture
- **Article category** AC1 Vehicles
- **Application of the substance / the mixture**
Coating compound/ Surface coating/ paint
Surface protection
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
EN Chemicals S.A.
57 009 Kalochori
ThessalonikiI, GREECE
T: +30 2310 755 428
F: +30 2310 755 428
info@enchemicals.com
www.enchemicals.com
- **Further information obtainable from:**
EN Chemicals S.A.
57 009 Kalochori
ThessalonikiI, GREECE
T: +30 2310 755 428
F: +30 2310 755 428
info@enchemicals.com
www.enchemicals.com
- **Emergency telephone number:**
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

2 Hazards identification

- **Classification of the substance or mixture**



Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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health hazard

Muta. 1A	H340	May cause genetic defects.
Carc. 1A	H350	May cause cancer. Route of exposure: Inhalation.
Repr. 1A	H360	May damage fertility or the unborn child.



Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Acute Tox. 5	H333	May be harmful if inhaled.

- **Additional information:**

- 6.1E Substances that are acutely toxic – May be harmful, aspiration hazard
- 6.3A Substances that are irritating to the skin
- 2.1.2A Flammable aerosol
- 8.3A Substances that are corrosive to ocular tissue
- 6.9 (Narcotic) Substances that are harmful to human target organs or systems
- 6.4A Substances that are irritating to the eye
- 6.6A Substances that are known or presumed human mutagens
- 6.7A Substances that are known or presumed human carcinogens

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

butane, pure
toluene
xylene
isobutane

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H333 May be harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer. Route of exposure: Inhalation.

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H360 May damage fertility or the unborn child.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

· Results of PBT and vPvB assessment

 · **PBT:** Not applicable.















 · **vPvB:** Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

 · **Description:** Mixture of hazardous substances

· Dangerous components:

CAS: 106-97-8	butane, pure	20-<25%
EINECS: 203-448-7	 Flam. Gas 1, H220	
Index number: 601-004-00-0	 Press. Gas C, H280	
RTECS: EJ 4200000	 Acute Tox. 3, H331	
	 Muta. 1A, H340; Carc. 1A, H350	
CAS: 67-64-1	acetone	20-<25%
EINECS: 200-662-2	 Flam. Liq. 2, H225	
Index number: 606-001-00-8	 Eye Irrit. 2A, H319; STOT SE 3, H336	
RTECS: AL 3150000		
CAS: 123-86-4	n-butyl acetate	10-<15%
EINECS: 204-658-1	 Flam. Liq. 3, H226	
Index number: 607-025-00-1	 STOT SE 3, H336	
RTECS: AF 7350000	Acute Tox. 5, H333	
CAS: 1330-20-7	xylene	5-<10%
Index number: 601-022-00-9	 Flam. Liq. 3, H226	
	 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
	Acute Tox. 5, H303	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-<5%
EINECS: 203-603-9	 Flam. Liq. 3, H226	
Index number: 607-195-00-7	Acute Tox. 5, H333	
CAS: 108-88-3	toluene	2.5-<5%
EINECS: 203-625-9	 Flam. Liq. 2, H225	
Index number: 601-021-00-3	 Repr. 1A, H360; STOT RE 2, H373; Asp. Tox. 1, H304	
RTECS: XS 5250000	 Skin Irrit. 2, H315	
	Acute Tox. 5, H303	

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Trade name: EN 8150 BUMPER TEXTURE BLACK 400ml

CAS: 75-28-5	isobutane	2.5-<5%
EINECS: 200-857-2	 Flam. Gas 1, H220	
Index number: 601-004-00-0	 Press. Gas C, H280	
RTECS: TZ 4300000	 Muta. 1A, H340; Carc. 1A, H350	
CAS: 1330-20-7	xylene	<2.5%
EINECS: 215-535-7	 Flam. Liq. 3, H226	
Index number: 601-022-00-9	 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
RTECS: ZE 2100000	Acute Tox. 5, H303	
CAS: 74-98-6	propane	<2.5%
EINECS: 200-827-9	 Flam. Gas 1, H220	
Index number: 601-003-00-5	 Press. Gas C, H280	
RTECS: TX 2275000		
CAS: 1333-86-4	Carbon black	<2.5%
EINECS: 215-609-9		
RTECS: FF 5150100		

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses in case of eye contamination and irrigate copiously with clean water for at least 15 minutes trying to hold the eye lids open.

· **After swallowing:** If symptoms persist consult doctor.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· Advice for firefighters

Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

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- **Special protective equipment and fire fighting procedures:** No special measures required.
 - **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
-

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
 - **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
 - **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
 - **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
-

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
 - **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 - **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Keep container tightly sealed.
 - **Specific end use(s)** No further relevant information available.
-

8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
106-97-8 butane, pure
WES (New Zealand) Long-term value: 1900 mg/m³, 800 ppm
67-64-1 acetone
WES (New Zealand) Short-term value: 2375 mg/m³, 1000 ppm
Long-term value: 1185 mg/m³, 500 ppm
bio

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IOELV (EU) Long-term value: 1210 mg/m³, 500 ppm**123-86-4 n-butyl acetate**WES (New Zealand) Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppmIOELV (EU) Short-term value: 723 mg/m³, 150 ppm
Long-term value: 241 mg/m³, 50 ppm**1330-20-7 xylene**WES (New Zealand) Long-term value: 217 mg/m³, 50 ppmIOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin**108-65-6 2-methoxy-1-methylethyl acetate**IOELV (EU) Short-term value: 550 mg/m³, 100 ppm
Long-term value: 275 mg/m³, 50 ppm
Skin**108-88-3 toluene**WES (New Zealand) Long-term value: 188 mg/m³, 50 ppm
skinIOELV (EU) Short-term value: 384 mg/m³, 100 ppm
Long-term value: 192 mg/m³, 50 ppm
Skin**1330-20-7 xylene**WES (New Zealand) Long-term value: 217 mg/m³, 50 ppmIOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin**74-98-6 propane**

WES (New Zealand) Simple asphyxiant; may present an explosion hazard

1333-86-4 Carbon blackWES (New Zealand) Long-term value: 3 mg/m³
Suspected carcinogen**Regulatory information**WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices
IOELV (EU): (EU) 2019/1831

- **Additional information:** The lists valid during the making were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

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- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 preparation 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 exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Rubber gloves

- **Eye protection:**

Safety glasses



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Fluid

Colour:

According to product specification

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

Melting point/freezing point:

Undetermined.

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Initial boiling point and boiling range:	-44.5 °C
· Flash point:	< 0 °C
· Flammability (solid, gas):	Not applicable.
· Autoignition temperature:	315 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C:	2,100 hPa
· Density at 20 °C:	1.053 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	78.7 %
VOC (EC)	859.9 g/l
Solids content (volume):	17.2 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	31.694 mg/kg (rat)
Dermal	LD50	19.761 mg/kg (rabbit)
Inhalative	LC50/4 h	>63.7 mg/l

106-97-8 butane, pure

Inhalative	LC50/4 h	658 mg/l (rat)
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67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)

1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50 (static)	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

1333-86-4 Carbon black

Oral	LD50	10,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation**
Sensitising effect through inhalation is possible by prolonged exposure.

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· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)Muta. 1A, Carc. 1A, Repr. 1A

12 Ecological information

· Toxicity**· Aquatic toxicity:**

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

· Persistence and degradability

This product contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

· Behaviour in environmental systems:**· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** No further relevant information available.**· Additional ecological information:****· General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment**· PBT:**

This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).

· vPvB:

This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods**· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

· UN-Number**· ADR, IMDG, IATA**

UN1950

· UN proper shipping name**· ADR**

UN1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

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· **Transport hazard class(es)**

· **ADR**



· **Class**

2.5F Gases.

· **Label**

2.1

· **IMDG, IATA**



· **Class**

2.1

· **Label**

2.1

· **Packing group**

· **ADR, IMDG, IATA**

Void

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **EMS Number:**

F-D,S-U

· **Segregation groups**

Liquid halogenated hydrocarbons

· **Stowage Code**

SW1 Protected from sources of heat.

SW2 Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

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· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

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

None of the ingredients is listed.

· **New Zealand Inventory of Chemicals**

- 106-97-8 butane, pure
- 67-64-1 acetone
- 9003-55-8 resin
- 123-86-4 n-butyl acetate
- 1330-20-7 xylene
- 108-65-6 2-methoxy-1-methylethyl acetate
- 108-88-3 toluene
- 75-28-5 isobutane
- 1330-20-7 xylene
- Polyethylene
- 74-98-6 propane
- 1333-86-4 Carbon black
- 68609-36-9 modified chlorinated polyolefin
- 100-41-4 ethylbenzene
- 108-90-7 chlorobenzene
- 61789-01-3 epoxidised oil
- 112945-52-5 aerosil 200
- **HSNO Approval numbers**
- HSNO Number/HSNO Group Standard HSR002515
- 106-97-8 butane, pure: HSR000989
- 67-64-1 acetone: HSR001070
- 123-86-4 n-butyl acetate: HSR001091
- 1330-20-7 xylene: HSR000983
- 108-65-6 2-methoxy-1-methylethyl acetate: HSR001219
- 108-88-3 toluene: HSR001227
- 75-28-5 isobutane: HSR001003
- 1330-20-7 xylene: HSR000983
- 74-98-6 propane: HSR001010

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1333-86-4 Carbon black: HSR002801

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger· **Hazard-determining components of labelling:**

butane, pure

toluene

xylene

isobutane

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H340 May cause genetic defects.

H350 May cause cancer. Route of exposure: Inhalation.

H360 May damage fertility or the unborn child.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category** P3a FLAMMABLE AEROSOLS· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t· **National regulations:**· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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16 Other information

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

- **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H303 May be 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.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H333 May be harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.
- H350 May cause cancer. Route of exposure: Inhalation.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Department issuing SDS:** Department of Quality Control

- **Contact:**

EN Chemicals S.A.
57 009 Kalochori
ThessalonikiI, GREECE
T: +30 2310 755 428
F: +30 2310 755 428
info@enchemicals.com
www.enchemicals.com

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport 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
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1

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Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity - dermal – Category 4
Acute Tox. 3: Acute toxicity - inhalation – Category 3
Acute Tox. 5: Acute toxicity - inhalation – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Muta. 1A: Germ cell mutagenicity – Category 1A
Carc. 1A: Carcinogenicity – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

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Annex: Exposure scenario 1**· Short title of the exposure scenario****· Sector of Use**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC8 Biocidal products**· Process category**

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· Article category AC1 Vehicles**· Environmental release category** ERC2 Formulation into mixture**· Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

· Conditions of use According to directions for use.**· Duration and frequency** Frequency of use:**· Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

· Physical state Aerosol**· Concentration of the substance in the mixture** The substance is main component.**· Used amount per time or activity** Smaller than 100 g per application.**· Other operational conditions****· Other operational conditions affecting environmental exposure** No special measures required.**· Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Do not breathe aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid contact with eyes.

Avoid long-term or repeated skin contact.

· Other operational conditions affecting consumer exposure

No special measures required.

Keep out of the reach of children.

· Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

· Risk management measures**· Worker protection****· Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

· Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

· Personal protective measures

Avoid contact with the skin.

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In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Pregnant women should strictly avoid inhalation or skin contact.

Avoid contact with the eyes.

Tightly sealed goggles

• **Measures for consumer protection**

Ensure adequate labelling.

Observe consumer information and advice on safe use.

Keep locked up and out of the reach of children.

• **Environmental protection measures**

• **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

• **Soil** The product is only processed over the concrete collecting basin.

• **Disposal measures** Ensure that waste is collected and contained.

• **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• **Waste type** Partially emptied and uncleaned packaging

• **Exposure estimation**

• **Consumer** This product is to be used by professional technicians only.

• **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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Annex: Exposure scenario 2**· Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

· Conditions of use According to directions for use.**· Duration and frequency** Frequency of use:**· Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

· Physical state Fluid**· Concentration of the substance in the mixture** Raw material.**· Other operational conditions****· Other operational conditions affecting environmental exposure** No special measures required.**· Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

· Other operational conditions affecting consumer exposure No special measures required.**· Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

· Risk management measures**· Worker protection****· Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

· Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

· Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Measures for consumer protection

Ensure adequate labelling.

Observe consumer information and advice on safe use.

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- **Environmental protection measures**

- **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

- **Soil** The product is only processed over the concrete collecting basin.

- **Disposal measures** Ensure that waste is collected and contained.

- **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Waste type** Partially emptied and uncleaned packaging

- **Exposure estimation**

- **Consumer**

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

- **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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Annex: Exposure scenario 3

- **Short title of the exposure scenario**

- **Sector of Use**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use** According to directions for use.

- **Duration and frequency** Frequency of use:

- **Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- **Physical state** Fluid

- **Concentration of the substance in the mixture** Raw material.

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting worker exposure**

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

- **Risk management measures**

- **Worker protection**

- **Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

- **Technical protective measures**

No special measures required.

Provide explosion-proof electrical equipment.

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Observe consumer information and advice on safe use.

- **Environmental protection measures**

- **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

- **Soil** The product is only processed over the concrete collecting basin.

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- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer**
This product is to be used by professional technicians only.
Not relevant for this Exposure Scenario.
- **Guidance for downstream users**
Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.