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

· 1.1 Product identifier

·Trade name: TECHNO BUMPER

· 1.2 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)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

· Product category PC9a Coatings and paints, thinners, paint removers

· Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

- · Application of the substance / the mixture Spray varnish
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

TECHNIQUA HANDELS GmbH

Reichenhaller Straße 15

D-83451 Piding

Tel: +49 (8651) - 767 62 51 E-Mail: sales@techniqua.de

· 1.4 Emergency telephone number:

Poison information center

Tel: +49 (0) 6131 - 19240, Langenbeckstraße 1, D- 55131 Mainz

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

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



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Safety data sheet According to 1907/2006 EEC Article 31

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· Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labelling:

xylene (mix)

· Hazard statements

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

H315 Causes skin irritation. H319 Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure. H373

Harmful to aquatic life with long lasting effects. H412

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Do not pierce or burn, even after use. P251

Do not breathe spray. P260

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves / eye protection. P273 Avoid release to the environment.

Use only outdoors or in a well-ventilated area. P271

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P410+P412

P403 Store in a well-ventilated place.

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

regulations.

· 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: Active substance with propellant

· Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1, H220; Press. Gas C, H280	25-<50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%

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		Contd. of page 2)
CAS: 78-93-3	butanone / MEK	2.5-<10%
EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	2.5-<10%
Reg.nr.: 01-2119473851-33	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	
CAS: 123-86-4	n-butyl acetate	2.5-<10%
EINECS: 204-658-1	Flam. Liq. 3, H226; STOT SE 3, H336	1
Reg.nr.: 01-2119485493-29	-	
CAS: 1333-86-4	Carbon black	0.1-<1.0%
EINECS: 215-609-9	Self-heat. 1, H251	1
CAS: 61789-72-8	Benzylalkyl quaternair ammoniumchloride	0.25-<1%
	Flam. Liq. 3, H226; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 107-98-2	1-methoxy-2-propanol	0.1-<1.0%
EINECS: 203-539-1	Flam. Liq. 3, H226; STOT SE 3, H336	1
Reg.nr.: 01-2119457435-35	-	

· Additional information:

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: 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.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 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.

Protect against electrostatic charges.

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.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Do not seal receptacle gas tight.

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.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

1330-20-7 xylene (mix)

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

67-64-1 Acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

78-93-3 butanone / MEK

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

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122 06 4 1	tril a aatata		(Contd. of page	
123-86-4 n-bu	-	/ 2 2/		
WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm				
1333-86-4 Car	bon black			
	rm value: 7 mg/ rm value: 3.5 m			
107-98-2 1-methoxy-2-propanol				
WEL Short-te	rm value: 560 n	ng/m³, 15	50 ppm	
	rm value: 375 m			
DNELs				
67-64-1 Aceto	ne			
		vstemic	62 mg/kg bw/day (Consumer)	
	•	•	62 mg/kg bw/day (Consumer)	
Berman Brv	EL Long term s	ysterine	186 mg/kg bw/day (Worker)	
Inhalativa DN	DNEL Acute-local		2420 mg/m3 (Worker)	
		ristami -	200 mg/m3 (Consumer)	
DN	EL Long term-s	ystemic		
78-93-3 butanone / MEK			1210 mg/m3 (Worker)	
	•	•	31 mg/kg bw/day (Consumer)	
Dermal DN	DNEL Long term-systemic			
			1161 mg/kg bw/day (Worker)	
Inhalative DN	DNEL Long term-systemic			
			600 mg/m3 (Worker)	
•			palkanes, cyclics	
	•	•	699 mg/kg bw/day (Consumer)	
Dermal DN	EL Long term-s	ystemic	699 mg/kg bw/day (Consumer)	
			773 mg/kg bw/day (Worker)	
Inhalative DN	DNEL Long term-systemic		608 mg/m3 (Consumer)	
			2035 mg/m3 (Worker)	
PNECs				
67-64-1 Aceto	ne			
PNEC Marine	water	1.06 mg	g/l (Undefind)	
		30.4 mg	z/kg (Undefind)	
			z/kg (Undefind)	
PNEC Marine water sediment 3.04 (U				
	ith biological li	`	t t	
1330-20-7 xylo		IIII varu	LUS.	
-		ine		
BMGV 650 mmol/mol creatinine Medium: urine				
Samp	ling time: post s			
	eter: methyl hip	puric ac	id	
78-93-3 butan				
BMGV 70 µm				
	ım: urine	h:f+		
	ling time: post s neter: butan-2-on			
	N 1/41411-4-1/1			

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· Additional Occupational Exposure Limit Values for possible hazards during processing:

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

Sk

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· 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.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

· Protection of hands:

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

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.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

Eve protection:

Safety glasses



Tightly sealed goggles

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· **Body protection:** Use protective suit. (EN-13034/6)

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SECTION 9: Physical and chemical properties

· 9.1 Information on	hasic	nhysical	and	chemical	properties
7.1 IIII OI III auon on	Dasic	DIIVSICAI	anu	спешиса	DI ODEI HES

· General Information

· Appearance:

· pH-value:

Form: Aerosol

Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined.

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: -24.9 °C

-42 °C · Flash point:

· Flammability (solid, gas): Not applicable.

Product is not selfigniting. · Auto-ignition temperature:

Product is not explosive. However, formation of explosive air/ · Explosive properties:

Not determined.

vapour mixtures are possible.

· Explosion limits:

0.7 Vol % Lower: Upper: 18.6 Vol %

· Vapour pressure at 20 °C: 5200 hPa

· Density at 20 °C: 0.84 g/cm³ · Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not applicable.

· Solubility in / Miscibility with

Not miscible or difficult to mix. water:

· Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content: **Organic solvents:** 73.8 %

Solids content: 25.4 %

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:				
1330-20-7	1330-20-7 xylene (mix)				
Oral	LD50	4300 mg/kg (rat)			
Dermal	LD50	2000 mg/kg (rbt)			
67-64-1 Acetone					
Oral	LD50	5800 mg/kg (rat)			
Dermal	LD50	7800 mg/kg (rbt)			
Inhalative	LC50/4h	>20 mg/l (rat)			
78-93-3 bu	78-93-3 butanone / MEK				
Oral	LD50	>2193 mg/kg (rat)			
Dermal	LD50	>5000 mg/kg (rabbit)			
		5000 mg/kg (rbt)			
Hydrocar	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
Oral	LD50	>5000 mg/kg (rat)			
Dermal	LD50	>2800 mg/kg (rabbit)			
Inhalative	LC50/4 h	>23 mg/l (rat)			

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

12.1 Toxicity		
· Aquatic toxicity: 1330-20-7 xylene (mix)		
EC50/48h	3.2-9.5 mg/l (Daphnia magna)	
67-64-1 Acetone		
EC50	8800 mg/l (Daphnia magna)	
	8300 (96h) mg/l (Fish)	
78-93-3 butanone / MEK		
LC50/96h	2993 mg/l (Pimephales promelas)	
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EC50/48h	308 mg/l (Daphnia magna)
Hydrocarbons, 0	C7-C9, n-alkanes, isoalkanes, cyclics
NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata)
EL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	>13.4 mg/l (Oncorhynchus mykiss (96h))
NOEC (21 days)	0.17 mg/l (Daphnia magna)
LOEC (21 days)	0.32 mg/l (Daphnia magna)
EC50/48h	3 mg/l (Daphnia magna)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · 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.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 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.

SECTION 14: Transport information	SECTION	14. Transport	information
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· 14.1 UN-Number · ADR, ADN, IMDG, IATA	UN1950	
14.2 UN proper shipping nameADR, ADNIMDGIATA	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable	

- · 14.3 Transport hazard class(es)
- \cdot ADR



· Class 2 5F Gases.

· Label 2.1

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(Contd. of page 9) \cdot ADN · ADN/R Class: 2 5F · IMDG, IATA · Class 2.1 2.1 · Label · 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Gases. · Danger code (Kemler): · EMS Number: F-D,S-U · Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, 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. · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · Limited quantities (LQ) Code: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category · Tunnel restriction code D · Limited quantities (LO) 1L · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

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· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

Class	Share in %
NK	50-<75

- · VOC-CH 73.79 %
- · VOC-EU 622.1 g/l
- · Danish MAL Code 5-3
- · 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.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H251 Self-heating: may catch fire.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· 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)

ICAO: International Civil Aviation Organisation

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

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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Self-heat. 1: Self-heating substances and mixtures – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered. *

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