SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING *

1.1. Product identifier

Product name : CATHIEL SATIN GLOSS SPRAY
Product code : 2211

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

Application : SU21 Consumer product. PC9a Paint. PC23 Leather maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : Cathiel Chemie B.V.
Marconistraat 19
6902 PC Zevenaar, The Netherlands
Telephone : +31 316 52 33 68
Fax : +31 316 34 03 38
E-mail : cathiel@planet.nl
Website : www.cathiel.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
NL - Telephone : +31 316 52 33 68 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Aerosols, category 1. Eye irritation, category 2. Specific target organ toxicity after single exposure, category 3.

Human health hazards : Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards : Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Caution: Do not breathe spray. Use only in well-ventilated areas.

2.2. Label elements

Label elements (1272/2008/EC):
Hazard pictograms :

Signal word : Danger

H- and P-phrases	:	H222	Extremely flammable aerosol.
		H229	Pressurised container: May burst if heated.
		H319	Causes serious eye irritation.
		H336	May cause drowsiness or dizziness.
		EUH066	Repeated exposure may cause skin dryness or cracking.
		P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P251	Do not pierce or burn, even after use.
		P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P211	Do not spray on an open flame or other ignition source.
		P261 spray	Avoid breathing spray.
		P271	Use only outdoors or in a well-ventilated area.
		P280 eyes	Wear eye protection/face protection.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337+P313	If eye irritation persists: Get medical advice/attention.
		P312	Call a POISON CENTER/doctor if you feel unwell.
		P403	Store in a well-ventilated place.
		P405	Store locked up.
		P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling

: Contains: 2-Butanone ; Ethyl acetate ; 2,6-Dimethylheptan-4-one ; Solvent naphtha (petroleum), light aromatic ; n-Butyl acetate ; 2-Methylpropan-2-ol ; Propan-2-ol .

: 4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS *

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
2-Butanone	25 - < 50	78-93-3	201-159-0		01-2119457290-43
Dimethyl ether	25 - < 50	115-10-6	204-065-8		01-2119472128-37
Ethyl acetate	10 - < 20	141-78-6	205-500-4		01-2119475103-46
2,6-Dimethylheptan-4-one	5 - < 10	108-83-8	203-620-1		01-2119474441-41
Solvent naphtha (petroleum), light aromatic	1 - < 2,5	64742-95-6	265-199-0		
n-Butyl acetate	1 - < 5	123-86-4	204-658-1		01-2119485493-29
2-Methylpropan-2-ol	1 - < 5	75-65-0	200-889-7		01-2119444321-51
Cellulose, nitrate	1 - < 5	9004-70-0	618-392-2		
Propan-2-ol	0,1 - < 1	67-63-0	200-661-7		01-2119457558-25
Xylene (mixed isomers)	0,1 - < 1	1330-20-7	215-535-7		01-2119488216-32

Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	Hazard Class	H-phrases	Pictograms	

2-Butanone	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	H225; H319; H336; EUH066	GHS02; GHS07	
Dimethyl ether	Flam. Gas 1; Press. Gas	H220	GHS02; GHS04	
Ethyl acetate	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	H225; H319; H336; EUH066	GHS02; GHS07	
2,6-Dimethylheptan-4-one	Flam. Liq. 3; STOT SE 3	H226; H335	GHS02; GHS07	H335 : C # 10 %
Solvent naphtha (petroleum), light aromatic	Asp. Tox. 1; Aquactic Chronic 2; STOT SE 3; Flam. Liq. 3	H226; H304; H335; H336; H411; EUH066	GHS02; GHS07; GHS08; GHS09	
n-Butyl acetate	Flam. Liq. 3; STOT SE 3	H226; H336; EUH066	GHS02; GHS07	
2-Methylpropan-2-ol	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; STOT SE 3	H225; H332; H319; H335	GHS02; GHS07	
Cellulose, nitrate	Expl. 1.1	H201; EUH001	GHS01	
Propan-2-ol	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	H225; H319; H336	GHS02; GHS07	
Xylene (mixed isomers)	Flam. Liq. 3; Asp. Tox. 1; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2	H226; H304; H332; H312; H315; H319; H335; H373	GHS02; GHS07; GHS08	

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES *

4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.

Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.

Ingestion : Do not induce vomiting. Give nothing to drink. Do rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.

Skin contact : Repeated exposure may cause skin dryness or cracking.

Eye contact : Irritant. May cause redness and pain.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable	:	Carbondioxide (CO_2). Foam. Dry chemical. Water fog.
Not suitable	:	Water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards	:	Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.
Hazardous thermal decomposition products	:	Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters	:	Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES *

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions	:	Avoid release of product into sewers, surface water and/or ground water.
Other information	:	Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Collect spilled material in containers. Collect cans in an approved container. Do not pierce aerosols. Clean contaminated surface preferably with a special cleaner. Avoid use of solvents.

6.4. Reference to other sections

Reference to other sections	:	See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling	:	Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage	:	Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.
Recommended packaging	:	Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m3)	STEL 15 min (mg/m3)	Comments
2-Butanone	GB	600	899	Skin; BMGV
2-Butanone	EC	600	900	-
Dimethyl ether	GB	766	958	-
Dimethyl ether	EC	1920	-	-
Ethyl acetate	GB	720	1440	-
Ethyl acetate		734	1468	SCOEL (2008)
2,6-Dimethylheptan-4-one	GB	148	-	-
Solvent naphtha (petroleum), light aromatic		100	-	
n-Butyl acetate	GB	724	966	-
2-Methylpropan-2-ol	GB	308	462	-
Propan-2-ol	GB	999	1250	-

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
2-Butanone	Dermal				1161 mg/kg bw/day
	Inhalation				600 mg/m3
Dimethyl ether	Inhalation				1894 mg/m3
Ethyl acetate	Dermal				63 mg/kg bw/day
	Inhalation	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
2,6-Dimethylheptan-4-one	Dermal				80 mg/kg bw/day
	Inhalation	290 mg/m3	290 mg/m3	290 mg/m3	479 mg/m3
n-Butyl acetate	Inhalation	960 mg/m3	960 mg/m3		480 mg/m3
Propan-2-ol	Dermal				888 mg/kg bw/day
	Inhalation				500 mg/m3
Xylene (mixed isomers)	Dermal				180 mg/kg bw/day
	Inhalation		289 mg/m3		77 mg/m3

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
2-Butanone	Dermal				412 mg/kg bw/day
	Inhalation				106 mg/m3
	Oral				31 mg/kg bw/day
Dimethyl ether	Inhalation				471 mg/m3
Ethyl acetate	Dermal				37 mg/kg bw/day
	Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3
	Oral				4,5 mg/kg bw/day

2,6-Dimethylheptan-4-one	Dermal				28,5 mg/kg bw/day
	Inhalation	145 mg/m3	145 mg/m3	145 mg/m3	171 mg/m3
	Oral				7,14 mg/kg bw/day
n-Butyl acetate	Inhalation	859,7 mg/m3	859,7 mg/m3	102,34 mg/m3	102,34 mg/m3
Propan-2-ol	Dermal				319 mg/kg bw/day
	Inhalation				89 mg/m3
	Oral				26 mg/kg bw/day
Xylene (mixed isomers)	Dermal				108 mg/kg bw/day
	Inhalation	174 mg/m3	174 mg/m3		14,8 mg/m3
	Oral				1,6 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2-Butanone	Water	55,8 mg/l	55,8 mg/l	
	Sediment	284,74 mg/kg	284,7 mg/kg	
	Intermittent water			55,8 mg/l
	STP			709 mg/l
	Soil			22,5 mg/kg
	Oral			1000 mg/kg food
Dimethyl ether	Water	0,155 mg/l	0,016 mg/l	
	Sediment	0,681 mg/kg	0,069 mg/kg	
	Intermittent water			1,549 mg/l
	STP			160 mg/l
	Soil			0,045 mg/kg
Ethyl acetate	Water	0,26 mg/l	0,026 mg/l	
	Sediment	1,25 mg/kg	0,125 mg/kg	
	Intermittent water			1,65 mg/l
	STP			650 mg/l
	Soil			0,24 mg/kg
	Oral			0,2 mg/kg food
2,6-Dimethylheptan-4-one	Water	0,03 mg/l	0,003 mg/l	
	Sediment	0,46 mg/kg	0,046 mg/kg	
	Intermittent water			0,3 mg/l
	STP			2,55 mg/l
	Soil			0,075 mg/kg
n-Butyl acetate	Water	0,18 mg/l	0,015 mg/l	
	Sediment	0,981 mg/kg	0,0981 mg/kg	
	Intermittent water			0,36 mg/l
	STP			35,6 mg/l
	Soil			0,0903 mg/kg
2-Methylpropan-2-ol	Water	6,64 mg/l	0,664 mg/l	
	Sediment	5,8 mg/kg		
	Intermittent water			9,33 mg/l
	STP			690 mg/l
	Soil			1 mg/kg
Propan-2-ol	Water	140,9 mg/l	140,9 mg/l	
	Sediment	552 mg/kg	552 mg/kg	
	Intermittent water			140,9 mg/l
	STP			2251 mg/l
	Soil			28 mg/kg
	Oral			160 mg/kg food
Xylene (mixed isomers)	Water	0,327 mg/l	0,327 mg/l	
	Sediment	12,46 mg/kg	12,46 mg/kg	
	Intermittent water			0,327 mg/l
	STP			6,58 mg/l
	Soil			2,31 mg/kg

8.2. Exposure controls

Engineering measures	:	Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
Hygienic measures	:	When using do not eat, drink or smoke.

Personal protective equipment:
The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection	:	Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: butyl. Indication of permeation breakthrough time: 6 hours.
Respiratory protection	:	Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
Hand protection	:	Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
Eye protection	:	Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Appearance	:	Aerosol.	
Colour	:	Colourless.	
Odour	:	Characteristic.	
Odour threshold	:	Not known.	
pH	:	Not applicable.	Almost waterfree product.
Solubility in water	:	Not soluble.	
Partition coefficient (n-octanol/water)	:	Not known.	
Flash point	:	Not applicable.	Not measurable.
Flammability (solid, gas)	:	Extremely flammable.	
Auto ignition temperature	:	Not applicable.	Aerosol container explodes before reaching the auto-ignition point.
Boiling point/boiling range	:	Not known.	Not measurable.
Melting point/melting range	:	Not known.	
Explosive properties	:		Pressurised container: May burst if heated.
Explosion limits (% in air)	:	Not known.	Lower explosion limit in air (%): 0,6 (Solvent naphtha (petroleum), light aromatic)
	:		Upper explosion limit in air (%): 32 Dimethyl ether
Oxidising properties	:	Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	:	Not applicable.	
Viscosity (20°C)	:	Not known.	
Viscosity (40°C)	:	Not known.	
Vapour pressure (20°C)	:	Not known.	
Vapour density (20°C)	:	> 1	(air = 1)
Relative density (20°C)	:	0,838 g/ml	
Evaporation rate	:	Not known.	(n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY *

10.1. Reactivity

Reactivity	:	See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION *

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 8,725 mg/l. Ingredients of unknown toxicity: 4 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 2 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Slight irritation possible. Repeated exposure may cause skin dryness or cracking. Prolonged contact may dry out and defat the skin. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 2592 mg/kg.bw. Ingredients of unknown toxicity: 35 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation	:	May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
Carcinogenicity	:	Not classified - based on available data, the classification criteria are not met.
Mutagenicity	:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Reprotoxicity	:	Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
2-Butanone	LD50 (oral)	2737 mg/kg bw	-----	Rat
	LD50 (dermal)	6400 mg/kg bw		Rabbit
	LC50 (inhalation)	> 5000 mg/m3		Rat
	NOAEL (oral)	2500 mg/kg bw/d		Rat
	Skin sensitisation	Not sensitizing		Guinea pig
	Skin irritation	Moderately irritant		Rabbit
	Eye irritation	Highly irritant		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 473	-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (developmental toxicity, inh.)	2955 mg/m3	OECD 414	Rat
	NOAEL (fertility) - estimate	1644 mg/kg.d		Rat
	NOAEL (inhalation)	14790 mg/m3	OECD 413	Rat
	Inhalation sensitisation - estimate	Not sensitizing	-----	Guinea pig
Ethyl acetate	LD50 (oral)	5620 mg/kg bw	-----	Rat
	LD50 (dermal)	> 18000 mg/kg bw		Rabbit
	LC50 (inhalation)	57700 mg/m3	-----	Rat
	NOAEL (oral)	900 mg/kg bw/d	-----	Rat
	Skin sensitisation	Not sensitizing	-----	Guinea pig
	Skin irritation	Non-irritant	-----	Rabbit
	Eye irritation	Irritant	-----	Human
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (inhalation)	2 mg/m3	-----	Rat
	Inhalation sensitisation - estimate	Not sensitizing	-----	Guinea pig
2,6-Dimethylheptan-4-one	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (inhalation)	5740 mg/m3	OECD 412	Rat
	NOAEL (oral)	2000 mg/kg bw/d	OECD 408	Rat
	LC50 (inhalation)	> 14500 mg/m3	OECD 403	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
	NOAEL (development, oral)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, oral)	300 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
Solvent naphtha (petroleum), light aromatic	NOAEL (developmental toxicity, inh.)	> 23900 mg/m3	OECD 414	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOEL (carcinogenicity) - estimate	Not carcinogenic		

	NOAEL (inhalation)	1402 mg/m3	OECD 453	Rat
	NOAEL (fertility, inh.)	> 20000 mg/m3	OECD 416	Rat
	NOAEL (dermal)	> 40 mg/kg bw/d	OECD 453	Mouse
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	Skin irritation	Mildly irritant		
	Eye irritation - estimate	Non-irritant		
	NOAEL (fertility) - estimate	Not reprotoxic		
	LC50 (inhalation) - estimate	5310 mg/m3	Read across	Rat
	LD50 (dermal)	> 3500 mg/kg bw	OECD 402	Rat
	LD50 (oral)	8400 mg/kg bw	-----	Rat
n-Butyl acetate	NOAEL (inhalation)	2395 mg/m3		
	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	LC50 (inhalation)	> 21100 mg/m3	OECD 403	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (dermal)	> 14100 mg/kg bw	OECD 402	Rabbit
	LD50 (oral)	10700 mg/kg bw	-----	Rat
	NOAEL (fertility, inh.)	> 3000 mg/m3	OECD 415	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOAEL (developmental toxicity, inh.)	> 7230 mg/m3	OECD 414	Rat
2-Methylpropan-2-ol	Genotoxicity - in vitro	Not genotoxic	-----	-----
	NOEL (carcinogenicity) - estimate	Not carcinogenic	-----	-----
	NOAEL (fertility, oral)	Not reprotoxic	-----	-----
	NOAEL (development, oral)	Not teratogenic	-----	-----
	LD50 (oral)	2733 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LC50 (inhalation)	9700 mg/m3		Rat
	NOAEL (oral)	> 2000 mg/kg bw/d		Rat
	Skin sensitisation	Not sensitizing		Guinea pig
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
Propan-2-ol	LD50 (oral)	4396 mg/kg bw	-----	Rat
	LD50 (dermal)	12800 mg/kg bw	-----	Rat
	LC50 (inhalation)	46600 mg/m3	-----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh.)	12500 mg/m3		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (oral)	870 mg/kg bw/d	-----	Rat

SECTION 12 ECOLOGICAL INFORMATION *

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 39 mg/l. Calculated EC50 (waterflea): 40 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Other adverse effects

Other information : Not applicable.

VOC-content (EC) : 804 g/l

SECTION 13 DISPOSAL CONSIDERATIONS *

13.1. Waste treatment methods

Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION *

14.1. UN number

UN nr. : UN 1950

14.2. UN proper shipping name

Transport name : AEROSOLS

Transport name (IMDG, IATA) : AEROSOLS

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class	:	2
Classification code	:	5F
Packaging group	:	-
Danger label	:	2,1
	:	

Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class	:	2,1
Packaging group	:	-
EmS (fire / spill)	:	F - D / S - U
Marine pollutant	:	No

IATA (air)

Class	:	2,1

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

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

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION *

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

Community regulations : Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.

: In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge ‘Solvent Abuse Can Kill Instantly’ accompanied by the phrase ‘Use only as directed’.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION *

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user’s obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H201	Explosive; mass explosion hazard.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH001	Explosive when dry.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of hazard classes mentioned in section 3:

Expl. 1.1	:	Explosives, Division 1.1.
Flam. Gas 1	:	Flammable gas, category 1.
Flam. Liq. 2	:	Flammable liquid, category 2.
Flam. Liq. 3	:	Flammable liquid, hazard category 3.
Acute Tox. 4	:	Acute toxicity, category 4.
Skin Irrit. 2	:	Skin irritation, category 2.
Eye Irrit. 2	:	Eye irritation, category 2.
STOT SE 3	:	Specific target organ toxicity after single exposure, category 3.
STOT RE 2	:	Specific target organ toxicity — repeated exposure, category 2.
Asp. Tox. 1	:	Aspiration hazard, category 1.
Aquatic Chronic 2	:	Hazardous to the aquatic environment — Chronic category 2.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	:	Acute Toxicity Estimate
CLP	:	Classification, Labeling & Packaging
CMR	:	Carcinogenic, Mutagenic or toxic for Reproduction
EEC	:	European Economic Community
IATA	:	International Air Transport Association
IBC code	:	International Bulk Chemical Code
IMDG	:	International Maritime Dangerous Goods Code
LD50/LC50	:	Lethal Dose/Concentration for 50% of a population
MAC	:	Maximum Allowable Concentration
MARPOL	:	International Convention for the Prevention of Pollution From Ships
NO(A)EL	:	No Observed (Adverse) Effect Level
OECD	:	Organisation for Economic Co-operation and Development
PBT	:	Persistent, Bioaccumulative and Toxic
PC	:	Chemical product category
PT	:	Product type
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	:	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	:	Sewage Treatment Plant
SU	:	Sector of Use
TWA/STEL	:	Time-Weighted Average/Short Term Exposure Limit
UN	:	United Nations

VOC	:	Volatile Organic Compounds
vPvB	:	Very Persistent and Very Bioaccumulative
Number format	:	"," used as decimal separator.

End of safety data sheet.