Version 2.0
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P-413

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

1.1 Product identifier

Trade name: P-413

Article number: HER006/1

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the preparation:
Heat-cured phenolic coating for products fabricated of light gauge metal.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
HERESITE PROTECTIVE COATINGS, LLC
Liquid Coatings Division 822 SOUTH 14TH ST. MANITOWOC, WI 54220, USA

Tel: 001-920-684-6646 (HERESITE Information Line)
Telefax: 001-920-684-0110
Only Representative (OR)
ENVIRON UK Ltd
1 Broad Gate The Headrow Leeds LS1 8EQ
United Kingdom

Tel.: +44-(0)113-245-7552
Fax: +44-(0)113-245-7495

Information:
see manufacturer/supplier
email Sue Bullock, ENVIRON UK (sbullock@uk.environcorp.com)

1.4 Emergency telephone number:
see: manufacturer/supplier National:
UK
In England and Wales: NHS Direct - 0845 4647
In Scotland: NHS 24 - 08454 24 24 24

2. HAZARDS IDENTIFICATION

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

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.

2.2 Label Elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard Pictogram:

Signal Word:
Danger

Hazard-determining components of labelling:
Bisphenol A diglycidyl ether-bisphenol A copolymer

Hazard Statement(s):
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statement(s):

P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/ lighting/equipment.
P242 - Use only non-sparkling tools.
P243 - Take precautionary measures against static discharge.
P403 + P235 - Store in a well-ventilated place. Keep cool
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical advice / attention.
P362 - Take off contaminated clothing and wash before reuse.
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.
P261 - Avoid breathing mist/vapours/spray.
P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH209 Can become highly flammable in use.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures
Description: Mixture of the substances listed below with harmless additions.

INGREDIENT	CAS Number	EINECS	Percent (w/w)	Substance Classification
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3		10 – 30%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317
Xylene	1330-20-7	215-535-7	1 – 2%	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H320; Asp. Tox. 1, H304; STOT SE 3, H335; STOT RE 2, H373 (CNS, liver, kidney)
1-methoxypropan-2-ol	107-98-2	203-539-1	5 – 10%	Flam. Liq. 3, H226; STOT SE 3, H336
2-butoxyethanol	111-76-2	203-905-0	1 – 5%	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319
Acetone	67-64-1	200-662-2	10 - 15%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:
In all cases of doubt, or when sickness symptoms persist, seek medical attention. Instantly remove any clothing soiled by the product.
Contaminated clothing should be laundered before reuse.
After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
After skin contact:
Instantly wash with water and soap and rinse thoroughly.
Seek medical treatment.
After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek immediate medical advice.
After swallowing:
Do NOT induce vomiting unless directed to do so by medical personnel.
Rinse out mouth and then drink plenty of water.
NEVER give anything to drink to an unconscious person.
Call a doctor immediately.

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

Repeated skin contact may result in sensitisation (allergy).
In case of contact with eyes and/or skin:
Eye irritation, redness, tearing and blurred vision.

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

Symptomatic treatment following exposure to the product.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol-resistant foam
CO_2
Fire-extinguishing powder
For safety reasons unsuitable extinguishing agents: Water with a full water jet.
5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters Protective equipment:
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Wear full protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Keep people at a distance and stay on the windward side.
Ensure adequate ventilation.
Keep away from ignition sources.
6.2 Environmental precautions:
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).
Keep dirty washing water for appropriate disposal.
6.3 Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Absorb with liquid-binding noncombustible material (e.g. sand).
Clean the accident area carefully; suitable cleaners are:
Warm water and cleaning agent.
Send for recovery or disposal in suitable containers.
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 information on disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Handle with care. Avoid jolting, friction and impact.
Use solvent-proof equipment.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke. Protect from heat.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity). Do not smoke.
Wear shoes with insulated soles.
Protect against electrical device failure.

7.2 Conditions for safe storage, including any incompatibilities:
Storage
Requirements to be met by storerooms and containers:

Storehouses and workplaces must be sufficiently ventilated. Store in cool location.
Suitable storage temperature -40 °C - +40 °C
Information about storage in one common storage facility:
Store away from foodstuffs.
Do not store together with acids. Store away from oxidising agents.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed containers.
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 systems:
Engineering controls should be used as primary means to control exposures.
Make available emergency shower and eye wash at the workplace.
A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.
No further data; see Section 7.

8.1 Control parameters

Component	Type / Country	
Xylene	IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221mg/m³, 50 ppm
	OEL (Italy)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm
	OEL (UK)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm
1-methoxypropan-2-ol	IOELV (EU)	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
	OEL (Italy)	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
	OEL (UK)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
2-butoxyethanol	IOELV (EU)	Short-term value: 246 mg/m³, 50 ppm Long-term value: 98 mg/m³, 20 ppm
	OEL (Italy)	Short-term value: 246 mg/m³, 50 ppm Long-term value: 98 mg/m³, 20 ppm
	OEL (UK)	Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm
Acetone	IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm
	OEL (Italy)	Long-term value: 1210 mg/m³, 500 ppm

	OEL (UK)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
Ingredients with biological limit values:		
Xylene (mix)	BMGV (UK)	650 mmol/mol creatinine Medium: urine Post shift Parameter: methyl hippuric acid
2-butoxyethanol	BMGV (UK)	240 mmol/mol creatinine Medium: urine Time: Post shift Parameter: Butoxyacetic acid
Acetone	BMGV (Italy)	50 mg/L Medium: urine Sampling Time: end of shift Parameter: Acetone (Nonspecific)

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Take off immediately all contaminated clothing.
Launder work clothing regularly.
Wash hands before breaks and at the end of the work. Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Do not eat, drink or smoke while working to limit potential ingestion of chemicals.
Breathing equipment:
Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.
If the applicable Occupational Exposure Level (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.
Protection of hands:
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: Chemically resistant gloves (Standard EN374).
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.
Eye protection: Tightly sealed safety glasses.
Body protection: Protective work clothing.
Apron

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General Information

Appearance:	Red Paint
Form:	Liquid
Colour:	Red
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not applicable.

Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	66°C
Flash point:	-17 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-inflammability:	Not determined.
Danger of explosion:	Not applicable.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	74.3 mm Hg
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	2.8
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Specific Gravity:	1.2
Viscosity:	Not determined.
kinematic:	
9.2 Other information:	No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:
No known hazards with respect to reactivity when handled and stored according to provisions.
10.2 Chemical stability:
Stable under recommended storage and handling conditions.
(-40 °C - +40 °C)
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:
High temperatures
Heat, flames and sparks.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products:
In case of fire:
Carbon monoxide and carbon dioxide Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity: There is no data available for the material itself.

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation

Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	> 2000 mg/kg (rat)	> 2000 mg/kg (Rat)	No information available.
Xylene	1330-20-7	> 4300 mg/kg (rat)	> 2000 mg/kg	6350 mg/L (Rat)
1-methoxypropan-2-ol	107-98-2	4277 mg/kg (rat)	> 2000 mg/kg (rabbit)	>= 6000 <= 7000 ppm (mouse)
2-butoxyethanol	111-76-2	1414 mg/kg (guinea pig)	> 2000 mg/kg (rabbit)	> 800 ppm (rat)
Acetone	67-64-1	5800 mg/kg (rat)	Insufficient data to classify	Insufficient data to classify

Substances	**CAS Number**	**Skin Corrosion / Irritation**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Irritating to skin in rabbits.
Xylene	1330-20-7	Irritating to skin in rabbits.
1-methoxypropan-2-ol	107-98-2	Not irritating to skin in rabbits.
2-butoxyethanol	111-76-2	Irritating to skin in rabbits.
Acetone	67-64-1	Not irritating to skin in guinea pigs.

Substances	**CAS Number**	**Eye damage/irritation**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Irritating to rabbit's eye
Xylene	1330-20-7	Moderately irritating to rabbit’s eye.
1-methoxypropan-2-ol	107-98-2	Non-irritating to rabbit's eye
2-butoxyethanol	111-76-2	Irritating to rabbit's eye
Acetone	67-64-1	Slightly irritating to rabbit’s eye

Substances	**CAS Number**	**Skin Sensitisation**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Has caused allergic sensitization in guinea pigs.
Xylene	1330-20-7	Not sensitizing in laboratory animals.
1-methoxypropan-2-ol	107-98-2	
2-butoxyethanol	111-76-2	
Acetone	67-64-1	

Substances	**CAS Number**	**Respiratory Sensitisation**
Not applicable	Not applicable	No studies were identified with regard to respiratory sensitisation for any of the hazardous substances contained within this product.

Substances	**CAS Number**	**Mutagenic Effects**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Some similar epoxy resins have shown some genetic toxicity in vitro – others did not.
Xylene	1330-20-7	

1-methoxypropan-2-ol	107-98-2	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
2-butoxyethanol	111-76-2	
Acetone	67-64-1	

Substances	**CAS Number**	**Carcinogenic Effects**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Similar epoxy resins did not cause cancer in long term studies.
2-butoxyethanol	111-76-2	Did not show carcinogenic effects in animal experiments. A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (Italy - Recommended Exposure Limits Based on ACGIH TLVs – Carcinogens)
Xylene	1330-20-7	Did not show carcinogenic effects in animal experiments.
1-methoxypropan-2-ol	107-98-2	
Acetone	67-64-1	

Substances	**CAS Number**	**Reproductive toxicity**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Did not cause birth defects in laboratory animals. Has been toxic to the fetus only at maternally toxic doses.
Xylene	1330-20-7	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
1-methoxypropan-2-ol	107-98-2	
2-butoxyethanol	111-76-2	
Acetone	67-64-1	

Substances	**CAS Number**	**STOT - single exposure**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	No significant toxicity observed in animal studies at concentrations requiring classification.
Xylene	1330-20-7	May cause respiratory irritation.
1-methoxypropan-2-ol	107-98-2	May cause damage or disorder to the central nervous system.
2-butoxyethanol	111-76-2	No significant toxicity observed in animal studies at concentrations requiring classification.
Acetone	67-64-1	May cause damage or disorder to the central nervous system.

Substances	**CAS Number**	**STOT - repeated exposure**
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	No data of sufficient quality were identified. Reported symptoms following chronic exposure may include anesthetic and narcotic effects; dizziness and drowsiness may also occur. In animals, target organs were liver, kidney and spleen.
Xylene	1330-20-7	May cause damage to central nervous system, liver, kidney through prolonged or repeated exposure.
1-methoxypropan-2-ol	107-98-2	No significant toxicity observed in animal studies at concentrations requiring classification.
2-butoxyethanol	111-76-2	
Acetone	67-64-1	

Substances	**CAS Number**	**Aspiration hazard**

Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Not applicable
Xylene	1330-20-7	May be fatal if swallowed and enters airways.
1-methoxypropan-2-ol	107-98-2	Not considered to be an aspiration hazard.
2-butoxyethanol	111-76-2	
Acetone	67-64-1	

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity No ecotoxicological data for the substance itself are available.

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Xylene (mix)	1330-20-7	EbC50 – Selenastrum capricornutum Result: 2.2 mg/l Exposure time: 73 h	LC50 – Salmo gairdneri Result: 3.3 mg/l Exposure time: 96 h	IC50 – Activated sludge Result: 96 mg/l Exposure time: 24 h (similar substance)	IC50 - Daphnia magna Result: 1 mg/l Exposure time: 24 h (similar substance)
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	EC50 – Selenastrum capricornutum Result: >1000 mg/l Exposure time: 7d	LC50 - Fathead minnow (Pimephales promelas) Result: > 20000 mg/l Exposure time: 96 h	IC50 – Activated sludge, respiration inhibition Result: >1000 mg/l	LC50 - Daphnia magna Result: > 23000 mg/l Exposure time: 48 h
1-methoxypropan-2-ol	107-98-2	Pseudokirchnerella subcapitataca Result: > 1000 mg/L Exposure time: 7 d	EC50 - Fathead minnow (Pimephales promelas) Result: 20800 mg/l Exposure time: 96 h	IC50 – Activated sludge Result: 100 mg/L Exposure time: 3 h	LC50 - Daphnia magna Result: 21100 - 25900 mg/l Exposure time: 96 h
2-butoxyethanol	111-76-2	EC 50 - Pseudokirchnerella subcapitata Result: 911 mg/l Exposure time: 72 h	EC50 - Oncorhynchus mykiss Result: 1474 mg/l Exposure time: 96 h	Insufficient data to classify	EC50 - Water flea (Daphnia magna) Result: 1550 mg/l Exposure time: 48 h
Acetone	67-64-1	Insufficient data to classify	LC50 – Fathead minnow Result: 8120 mg/l Exposure time: 96 h	EC12 – Activated sludge Result: 1000 mg/l Exposure time: 30 m	LC50 - Daphnia pulex Result: 8800 mg/l Exposure time: 48 h

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.

Additional ecological information:
General notes:

At present no ecotoxicological assessments are known.
Avoid transfer into the environment.
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

12.5 Results of PBT and vPvB assessment
PBT: Not determined.

vPvB: Not determined.

12.6 Other adverse effects No further relevant information available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

Remove in accordance with the local official recommendations.

European waste catalogue:

08 00 00 Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks.

08 01 00 Wastes from MFSU and removal of paint and varnish

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14 TRANSPORT INFORMATION

14.1 UN Number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	PAINT (vapour pressure at 50 °C not more than 110 kPA)
IMDG, IATA	PAINT
14.3 Transport hazard class(es)	3
ADR, IMDG, IATA	3

Class	3
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II

14.5 Environmental hazards:	
Marine pollutant	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard Index Number:	33
EMS Number:	F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional Information:	-
ADR	
Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	(D/E)
UN "Model Regulation":	UN1263, PAINT (vapour pressure at 50 °C not more than 110 kPA), 3, II

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.

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

16. OTHER INFORMATION

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

Revision History
Version 2: Revisions were made to Sections 2, 3, 8, 9, 11, 12, and 16 of the SDS.

Relevant phrases
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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H320 Causes 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.

Abbreviations and acronyms:
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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
NOEC: No Observed Effect Concentration
EC50: Effective concentration that causes 50 % of the maximum response
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3