

SAFETY DATA SHEET

according to regulation of European parliament and Council (ES) number 1907/2006
according Committee regulation (EU) number 878/2020



Date of Issue: 03. 02. 2022 Version number: 1 No. of pages: 8
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Product name: **SANAKRYL 2K PUR - component B**

1. Section 1: Identification of substance/mixture and of the company/undertaking

1.1 Product identifier: **SANAKRYL 2K PUR - component B**
The product is not a nanoform, nor does it contain any nanoforms.
UFI code: **J4S6-FYJU-281D-4C3F**

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

1.2.1 Relevant identified use:
Life cycle phases: IS (use in industrial installations)
PW (wide use by professionals - basic)
C (consumer use)

Usage Name: SU0
Other usage description: Component B - two component polyurethane coating
Market description: PC9a; PC15
Name of Contributing Activity: spraying techniques in industrial plants
roller or brush application
non-industrial spraying techniques

Contributing activity description: PROC7
PROC10
PROC11

More information: technical function of the product in Component B - two component
this use: polyurethane coating
quantity to use: 0 - 10 t / yr
Regulatory status by use: No
a limited number of devices for No
this use:
the subsequent period of use 12 months
relevant to this use:
an overview of environmental ERC2; ERC5; ERC6d; ERC8c;
release categories for each life ERC8f; ERC10a; ERC11a;
cycle stage: ERC12a
supplied as a mixture
all other uses

1.2.2 Uses advised against:

1.3 Details of the supplier of the safety data sheet:
Producer and supplier: **AUSTIS a. s.**
Adress: **K Austisu 680, 154 00 PRAHA 5 - Slivenec**
Telephone number: **+420 251 099 111**
Fax: **+420 251 099 112**
e-mail: austis@austis.cz

1.4 Emergency telephone number: +420 251 099 247 +420 725 491 378
Centre of the Toxicologicaly information Na Bojišti 1, 120 00 Prague 2, **Tel.: +420 224 919 293**
CZ

2. Section 2: Hazard identification

2.1 Classification of the substance or mixture The mixture is classified as dangerous.
Classification under Regulation 1272/2008/EU Acute Tox. 3; H331
Eye Irrit. 2; H318
Skin Sens. 1; H317
Aquatic Chronic 3; H 412

2.2 Label elements

Symbols:

Signal word: **Dangerous**

It contains a hazardous substance: isocyanates, 2-(tricycloxy) ethyl dihydrogen phosphate, [3-(2,3-epoxypropoxy)propyl] trimethoxysilane and cyclohexyldimethylamine



Hazard Statement:

H331: Toxic if inhaled.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement:

P102: Keep out of reach of children.
P261: Avoid breathing vapours/ spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/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.
P311: Call a POISON CENTER/doctor.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container by incineration in an incineration or disposal of hazardous waste in landfills for hazardous waste.

2.3 Other hazards:

The mixture does not meet criteria to be classified as PBT or vPvB substances. The mixture is not endocrine disruptor, nor does it contain any.

Other risks:

EUH204: It contains an isocyanates. May cause an allergic reaction.

3. Section 3: Composition / information on ingredients

A solution aliphatic polyisocyanates.

Mixing ratio of components A and B:

4 : 1

3.2 Mixtures

Chemical name:

HDI oligomers, isocyanurate

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type

Content [%]:

< 8,7

< 3,9

Index number:

Not Assigned

Not Assigned

CAS:

Not Assigned

Not Assigned

EC number (EINECS):

931-274-8

931-312-3

REACH Registration number:

01-2119485796-17-0XXX

01-2119488734-24-0XXX

Classification according to Directive 1272/2008/EU:

Acute Tox. 4; H332
Skin Sens. 1; H317
STOT SE 3; H335

Skin sens. 1; H317
STOT SE 3; H335

Specific concentration limits, M-factors:

Not Assigned

Not Assigned

Chemical name:

2-(tricycloxy) ethyl dihydrogen phosphate

[3-(2,3-epoxypropoxy)propyl] trimethoxysilane

Content [%]:

< 1,4

< 0,8

Index number:

Not Assigned

Not Assigned

CAS:

9046-01-9

2530-83-8

EC number (EINECS):

618-558-4

219-784-2

REACH Registration number:

Not Assigned

01-2119513212-58-0XXX

Classification according to Directive 1272/2008/EU:

Skin Irrit. 2; H315
Eye Dam. 1; H318
Aquatic Chronic 2; H411

Eye Dam. 1; H318

Specific concentration limits, M-factors:

Not Assigned

Not Assigned

Chemical name:

Cyclohexyldimethylamine

Hexamethylene-1,6-diisocyanate

Content [%]:

< 0,4

< 0,48

Index number:

Not Assigned

615-011-00-1

CAS:

98-94-2

822-06-0

EC number (EINECS):

202-715-5

212-485-8

REACH Registration number:

01-2119533030-60-00XX

01-2119457571-37-0XXX

Classification according to Directive 1272/2008/EU:

Flam. Liq 3; H226
Skin. Cor. 1B; H314
Eye Dam. 1; H318
Acute tox. 3; H331
Acute tox. 3; H311
Acute tox. 3; H301
Aquatic Chronic 2; H411

Acute Tox. 1; H330
Acute Tox. 4; H302
Eye Irrit. 2; H319
STOT SE 3; H335
Skin Irrit. 2; H315
Resp. Sens. 1; H334
Skin Sens. 1; H317

Specific concentration limits, M-factors:

Not Assigned

c ≥ 0,5 % => Resp. Sens. 1; H334
c ≥ 0,5 % =>Skin Sens. 1; H317

Chemical name:

Isophoronediiisocyanate

Content [%]:

< 0,48

Index number:

615-008-00-5

CAS:

4098-71-9

EC number (EINECS):

223-861-6

REACH Registration number:

01-2119490408-31-0XXX

Classification according to Directive 1272/2008/EU:

Acute Tox. 1; H330
Eye Irrit. 2; H319
STOT SE 3; H335
Skin Irrit. 2; H315
Resp. Sens. 1; H334
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Specific concentration limits, M-factors:

Not Assigned

Full text of H - phrases in Section 16

4. Section 4: First aid measures

4.1 Description of first aid measures

When providing first aid it is necessary to ensure safety of both victim and person rescuing. It is necessary to avoid chaotic behavior. Victim must be kept in mental and physical rest. Victim must be kept warm and must not get chilled. Take original container with label or safety data sheet with information about substance or mixture with you in case of medical examination.

Inhalation: Break exposure, move to fresh air protecting the victim from cold. Provide medical treatment especially if coughing, shortness of breath or other symptoms persist.

When on skin: Put away contaminated clothes and shoes, wash the contaminated spot with plenty of tepid water; if the skin is not irritated, soap can be used; seek doctor's advice, especially if the skin stays irritated.

Eye Contact: Rinse eyes with plenty of water (10 to 15 min). Keep eyes open (even by force if necessary). If the victim is wearing contact lenses remove them immediately. Seek medical attention.

Ingestion: Do not induce vomiting! Drink at least 0.5 liters of water with 5 to 10 tablets of crushed charcoal. In case of nausea contact the Toxicology Information Centre for need of medical treatment with information about composition of the mixture from the original container or SDS.

4.2 Most important symptoms and effects, both acute and delayed

The product may have adverse effects through inhalation and if swallowed. It can irritate skin, mucous membranes and eyes.

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

Symptomatic treatment

5. Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: The product is not inflammable. Water spray (water mist), foam, carbon dioxide, dry powder.

Unsuitable extinguishing media: The strong water current. It can be spread fire.

5.2 Specific danger linked to the substance or mixture: Upon evaporation of the liquid element the residue burns and emits a thick black irritant smoke (CO, CO₂, NO_x, soot). Inhaling products during decomposition may endanger life.

5.3 Advice for firefighters: wear a breathing apparatus and protective clothing.

6. Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Appropriate protective gloves, goggles, appropriate clothing, or respirator.

6.1.1 For workers except for those intervening in emergency cases - instructions in case of accidental spill and leak of substance or mixture:

a) use of appropriate protection (including personal protective equipment according to part 8 BL), in order to avoid any skin, eyes or personal clothing contamination;

b) removing possible sources of ignition, providing proper ventilation, control of dust - not relevant

c) emergency measures, for example necessary evacuation from dangerous area or consultation with an expert - not relevant

6.1.2 For workers intervening in emergency cases - instructions for appropriate materials of personal protective suits (see part 8 BL)

6.2 Environmental precautions: Prevent environmental pollution - leakage into drains, surface water, groundwater or soil.

6.3 Methods and materials for limitation of leaks and for cleaning:

6.3.1 Instructions for leak limitation of spilled substance or mixture

a) enclose the spilled mixture, cover the canalization;

b) seal the damaged package

6.3.2 Instructions for removal of spilled substance or mixture

Absorb with appropriate agent, hand over to authorized person for disposal.

6.4 Reference to other sections: See also section 7., 8 and 13.

7. Section 7: Handling and storage

7.1 Measures for safe manipulation:

7.1.1 Recommendations:

a) Workers handling the product have to get familiar with health and safety rules for work and have to obey these rules. Secure escape routes (enclosing of leaked mixture, sealing of damaged packages and so on), for fire prevention (remove ignition sources, non-sparking tools and so on) and limit the production of aerosol and dust.

b) Obey measures for prevention of manipulation with incompatible substances or mixtures (see part 10) in common areas.

c) Store in original closed packages in temperature from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources.

d) Prevent the contamination of environment, i.e. leak into canalization, surface or underground water and soil.

7.1.2 Instructions for general hygiene of work:

a) Do not eat, drink or smoke on work areas.

b) After working with product wash your hands with soap and water, eventually use regeneration hand cream.

c) Before entering dining areas, remove contaminated clothing and protective equipment.

7.2 Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated storages in original closed packages in temperatures from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources. Prevent any contact with oxidizing substances, strong acids and bases. Do not store with food, drinks and feed. The product is not a flammable liquid according to ČSN 65 0201.

7.3 Specific end use: see part 1.2; coating procedure and recommendations are listed in technical list of the product, or in other product documentation.

8. Section 8: Exposure controls / personal protection

8.1 Control parameters:

Exposure limits EH40/2005 (WELs):

Not Assigned

HDI oligomers, isocyanurate [ES: 931-274-8]:

DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure) 0,5 mg/m³

DNEL (Workers, Hazard via inhalation route, Local effects, Acute/short term exposure) 1 mg/m³

PNEC aqua (freshwater) 0,127 mg/L

PNEC aqua (marine water) 0,013 mg/L

PNEC STP 88 mg/L

PNEC sediment (freshwater) 266 701 mg/kg sediment dw

PNEC sediment (marine water) 26 670 mg/kg sediment dw

PNEC soil 53 183 mg/kg soil dw

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type [ES: 931-312-3]:

DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure) 0,29 mg/m³

DNEL (Workers, Hazard via inhalation route, Local effects, Acute/short term exposure) 0,58 mg/m³

[3-(2,3-epoxypropoxy)propyl] trimethoxysilane [ES: 219-784-2]:

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure) 147 mg/m³

DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure) 21 mg/kg bw/day

DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure) 43,5 mg/m³

DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure) 12,5 mg/kg bw/day

DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure) 12,5 mg/kg bw/day

PNEC aqua (freshwater) 1 mg/L

PNEC aqua (marine water) 0,1 mg/L

PNEC STP 10 mg/L

PNEC sediment (freshwater) 3,6 mg/kg sediment dw

PNEC sediment (marine water) 0,36 mg/kg sediment dw

PNEC soil 0,14 mg/kg soil dw

Cyclohexyldimethylamine [ES: 202-715-5]:

DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure) 35 mg/m³

DNEL (Workers, Hazard via inhalation route, Local effects, Acute/short term exposure) 35 mg/m³

PNEC aqua (freshwater) 0,002 mg/L

PNEC aqua (marine water) 0 mg/L

	PNEC STP	20,6 mg/L
	PNEC sediment (freshwater)	0,021 mg/kg sediment dw
	PNEC sediment (marine water)	0,002 mg/kg sediment dw
	PNEC soil	0,003 mg/kg soil dw
8.2	Exposure controls	
	Ensure adequate ventilation. Ensure protective equipment is worn while working with the product. Contaminated work clothes can be reused after thorough cleaning. Wash your hands and face with soap and water after use. Do not eat, drink or smoke while working with the product.	
8.2.1	Appropriate engineering controls: Observe the usual precautions to protect the health and well-ventilated.	
8.2.2	Individual protection measures, such as personal protective equipment:	
	Occupational exposure is governed by Directive 89/686/EEC therefore any use of personal protective equipment must be in accordance with this Regulation.	
	a) Eyes and face protection: Suitable safety goggles (EN 166), face shielded.	
	b) Skin protection: Common safety clothing with long sleeve and shoes; take of the contaminated clothing and wash your skin with soap and water.	
	b-1) Hands protection: suitable protective gloves (made from rubber - according to EN 374), wash your hands with soap and water after work,	
	c) Airways protection: with proper area ventilation not required. When spraying, face half-shielded is recommended for gass filtration (EN 405) or quarter-shielded with gass filter (EN 140, EN 141).	
	d) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for protection against materials, which are considered to be heat hazard. Not relevant for this product.	
8.2.3	Environmental exposure controls: Avoid infiltration of surface and groundwater and soil.	
9.	Section 9: Physical and chemical properties	
9.1.	Information on basic physical and chemical properties	
	a) State	viscous liquid
	b) Color	light yellow liquid
	c) Odour:	characteristic
	Odor threshold:	Not specified
	d) Melting/Freezing point (temperature range) (°C):	Not specified
	e) Boiling point or initial boiling point and boiling range (°C):	Not specified
	f) Combustibility:	non-flammable liquid
	g) Explosion limits: upper limit (% volume):	Not specified
	lower limit (% volume):	Not specified
	h) Point of ignition:	Not specified
	i) Temperature of self-ignition:	Not specified
	j) Temperature of decomposition (°C):	Not specified
	k) pH (23 °C)	not applicable - reacts with water
	l) Kinematic viscosity:	Not specified
	m) Solubility (23 °C)	
	- with water:	reacts with water
	- with fats:	Not specified
		In organic solvents: ketones, esters, aromatic hydrocarbons
	n) Partition coefficient n - octanol/water:	Not specified
	o) Steam pressure (20 °C):	Not specified
	p) Density and/or relative density (20 °C):	approximately 1,08 g.cm ⁻³
	q) Relative viscosity of steam (at °C):	Not specified
	r) Particles characteristics:	Not specified
9.2	Other information:	
9.2.1	Information about class of physical hazard:	is not relevant
9.2.2	Other safety characteristics	
	Evaporation rate:	Not specified
	Dynamic viscosity:	Not specified
	Explosive properties:	Not specified
	Oxidizing properties:	Not specified
	VOC (Mixture A + B)	30 g/L
10.	Section 10: Stability and reactivity	
	Product is stable under recommended storage and handling conditions.	
10.1	Reactivity: Reacting with water, alcohols, amines, alkalis, aqueous solutions, protic solvents.	
10.2	Chemical stability: Product is stable under recommended storage and handling conditions.	
10.3	Possibility of hazardous reactions: Reacting with water, alcohols, amines, alkalis, aqueous solutions, protic solvents.	
10.4	Conditions to avoid: Temperatures below 0 °C and above 100 °C cause degradation of the product. Temperatures above recommended storage temperature reduce life of the product. Avoid ignition source, moisture.	
10.5	Incompatible materials: Water (vigorous reaction), alcohols, amines, bases, aqueous solutions, some of the solvent (protic - are cleavable proton).	

10.6 Hazardous Decomposition Products: Carbon monoxide and dioxide, carbon black and oxides of nitrogen may form during burning or thermal decomposition of the product.

11. Section 11: Toxicological information

11.1 Information about hazard classes according to (ES) č. 1272/2008

<p>a) acute toxicity:</p> <ul style="list-style-type: none"> - LD₅₀, oral, rat (mg.kg⁻¹): - LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): - LC₅₀, inhalation, rat, for aerosols or particles (mg.kg⁻¹): - LC₅₀, inhalation, rat, for gases and vapours (mg.kg⁻¹): <p>b) corrosivity/skin irritation:</p> <p>c) serious eye damage / eyes irritation:</p> <p>d) sensitivity of airways / sensitivity of skin:</p> <p>e) germ cells mutagenicity:</p> <p>f) carcinogenicity:</p> <p>g) toxicity for reproduction:</p> <p>h) toxicity for specific organs - single exposure:</p> <p>i) toxicity for specific organs - multiple exposures:</p> <p>j) hazards while inhaled:</p> <p>Human experience:</p> <p>Tests on animals:</p>	<p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>Causes serious eye irritation.</p> <p>May cause an allergic skin reaction.</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>the classification criteria are not met based on available information</p> <p>No detrimental effects were found upon compliance with the prescribed safety measures.</p> <p>Were not performed</p>	
11.1.1	Information for each hazard class or breakdown:	see above
11.1.2	Toxicological properties of mixture	not available
	oligomers of hexamethylene diisocyanate, isocyanurate [ES: 931-274-8], 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type [ES: 931-312-3], epoxypropoxypropyl trimethoxysilane [ES: 219-784 -2] and N, N-dimethyl-cyclohexylamine [ES: 202-715-5]	see part 8
11.1.3	If enough information from substance/mixture trials exist, it might be necessary to sum up results of used studies, for example according to exposure run	not relevant
11.1.4	If the classification criteria are not met for specific hazard class, information explaining the justification should be stated.	relevant concentration limits were not exceeded
11.1.5	Information about likely exposure run	no effects on human health are known
11.1.6	Symptoms corresponding to physical, chemical and toxicological features	no effects on human health are known
11.1.7	Belated and immediate effects and chronic effects of short/long term exposure	no effects on human health are known
11.1.8	Interactive effects	unknown
11.1.9	Lack of specific data	not relevant
11.1.10	Mixtures	see part 8
11.1.11	Mixtures information compared to substance information	
	1) Substances in the mixture can react with each other inside of a body and can cause different levels of absorption, metabolism and	
	2) It is necessary to consider, if concentration of each substance is sufficient to contribute to mixture's effects on health. For each substance	
	a) if the information are doubled, they are listed only once for a substance as a whole, for example when two different substances are causing vomiting and diarrhea;	Not relevant for this mixture.
	b) if it is not likely the effects will appear with current concentrations, for example when weak irritating substance is dissolved in non-irritating solution to a level under certain concentration;	Not relevant for this mixture.
	c) if the information about mutual effects of substances in the mixture are unavailable, no assumptions will be listed and instead effects on health of each substance will be listed.	see part 8
11.1.12	Additional data:	None
11.2	Other hazards information	
11.2.1	Features causing disruption of endocrinal system	Not relevant for this mixture.
11.2.2	Other information	None

12. Section 12: Ecological information

12.1 Toxicity

<p>Acute toxicity for water organisms:</p> <ul style="list-style-type: none"> - LC₅₀, 96 hours, fish (mg/kg): - LC₅₀, 48 hours, fish (mg/kg): - IC₅₀, 72 hours, algae (mg/kg): 	<p>For the mixture is not known.</p> <p>Not set</p> <p>Not set</p> <p>Not set</p>
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12.2	Persistence and degradability:	Not set
12.3	Bioaccumulative potential:	Reacting with water - can not be determined; low with solvents.
12.4	Mobility in soil:	Not set
12.5	Results of PBT and vPvB	The mixture does not meet the criteria for classification as PBT or vPvB.
12.6	Features causing disruption of endocrinal systém	Unknown for this mixture
12.7	Other adverse effects:	See Section 2
	Additional data:	The product must not leak to surface and groundwater. Notify competent authorities immediately in case of accident.

13.	Section 13: Disposal considerations	
13.1	Methods of waste management:	
	a) Appropriate methods of substance, mixture and contaminated packaging disposal: Product remnants and packaging with product remnants must be incinerated in a hazardous waste incinerator or kept at a hazardous waste landfill.	
	b) Physical / chemical properties that can affect means of waste handling: Component B is a liquid which reacts with water, after mixing with component A and curing, behave as a solid.	
	c) Avoidance of disposal through sewer: It is necessary to prevent leakage of both components and hardened mixture into drains.	
	d) Special precautions for the recommended waste management: Avoid contact with skin and eyes.	

14.	Section 14: Transport information	
14.1	UN number or ID number	Not set
	Required shipping label:	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.2	Proper name of the United Nations for the shipment	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.3	Class / classes of hazards to transportation:	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.4	Packing group:	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.5	Environmental hazards:	Not specified
14.6	Special precautions for user:	See Section 8
	Special provisions (ADR):	Not set
14.7	Naval mass-transport according to instrumenst IMO:	Not applicable
	Notes:	None
	Additional data:	None

15.	Section 15: Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture.	
	Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals establishing a European Chemicals Agency, as amended	
	Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) as amended	
	Commision directive (EU) no. 878/2020	
	EH40/2005 Workplace exposure limits (second edition, published 2011). Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended)	
15.2	Assessment chemical safety of mixture:	Were not performed

16.	Section 16: Other informations	
	Information stated in this safety data sheet is based on the current knowledge of EU legislation. It is recommendation in terms of health and safety as well as recommendation related to ecological matters that are essential to safe usage of the product.	
	Initial data sources are safety data sheets of the inherent (components).	
	a) New edition.	
	b) key or legend for abbreviations and accronyms used in the safety data sheet:	
	LD ₅₀	The lethal dose for 50 % mortality of the test population relative to a control sample.
	LC ₅₀	Lethal concentration for 50 % mortality of the test population relative to a control sample.
	EC ₅₀	Effective concentration for 50 % mortality of the test population relative to a control sample.

EC ₁₀	Effective concentration for 10 % mortality of the test population relative to a control sample.
IC ₅₀	Inhibitory concentration to reduce the growth or growth rate of 50% of the test population relative to a control sample.
LL ₅₀	Lethal loading doses of test substance resulting in 50% mortality
EL ₅₀	Effective loading doses of test substance resulting in 50% mortality
PBT	Persistent, bioaccumulative and toxic substances.
vPvB	Very persistent and very bioaccumulative substances.
DNEL	Derived No Effect Level - derived concentration of the substance without adverse effects
DMEL	Derived Minimum Effect Level - derived minimum level at which the adverse effects
NOAEL	No Observed Adverse Effect Level - no negative effect was observed
PNEC	Predicted No Effect Concentration - an estimate of the concentration of the substance without adverse effects
NOELR	No Observed Effect Loading Rate - dosage rate without observed effect
NOEC	No Observed Effect Concentration - concentration without observed effect
NOEL	No Observed Effect Level - level without observed effect
LOEC	Lowest Observed Effect Concentration - lowest concentrations with observable effects
ADR	European Agreement concerning the international carriage of dangerous goods by road.
RID	Regulations concerning the international carriage of dangerous goods by rail.
IMDG	International maritime code of dangerous goods.
ICAO	The International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labelling of Chemical substances.

c) important references to literature and data sources

Initial data sources are safety data sheets of the inherent (components).

d) in case of mixture, statement about evaluation method used for classification according to article 9 of directive (ES) number 1272/2008
For evaluation purposes, principles of extrapolation were used. Calculation methods.

e) List of H-sentences, whose full form is not listed in other parts.

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for training:

As required by national legislation.

Recommended restrictions on use (i. e. non-statutory recommendations by supplier):

Product should not be used for other purposes than specified (see section 1.2). Because specific conditions of use are beyond supplier's control it is responsibility of the user to adapt notifications to local law and regulations. Safety information describe the product with regard to safety and can not be considered technical information about the product.

