ADVANCED MATERIALS

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.04.2023

Version number 9

Revision: 14.04.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: SU-8 2000 Series Resists • Article number: Y111004, Y111007, Y111014, Y111022, Y111029, Y111045, Y111053, Y111058, Y111064, Y111069, Y111070, Y111072, Y111074, Y111075 · 1.2 Relevant identified uses of the substance or mixture and uses advised against • Sector of Use SU16 Manufacture of computer, electronic and optical products, electrical equipment · Product category PC30 Photo-chemicals · Application of the substance / the mixture Photoresist · 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: *Manufacturer*: Kavaku Advanced Materials 200 Flanders Road Westborough, MA 01581 Telephone: (617) 965-5511 Fax: (617) 965-5818 Importer: A-Gas Electronic Materials Unit 3, IO Centre Swift Valley Rugby, Warwickshire CV21 1TW, UK *Tel:* +44-0-1788-537535 Fax: +44-0-1788-535835 Website: www.agasem.com Email: customerservice.em@agas.com • Further information obtainable from: Product Safety Email: productsafety@kayakuam.com · 1.4 Emergency telephone number: Kayaku Advanced Materials : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 (24 hr) Chemtrec International Emergency: 703-527-3887 (24 hr)

SECTION 2: Hazards identification

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

flame

Flam. Liq. 3

H226 Flammable liquid and vapour.

environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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\mathbf{v}	
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 eleme · Labelling accor	ents ents ding to Regulation (EC) No 1272/2008
	classified and labelled according to the GB CLP regulation.
· Hazard pictogr	ams
CUS02 CU	
GHS02 GHS	S07 GHS09
· Signal word Wa	irning
0	
	ining components of labelling:
Epoxy resin	
	di-4, 1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)
	enyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)
· Hazard stateme	
	le liquid and vapour.
H315 Causes sk	
	prious eye irritation.
	e an allergic skin reaction.
	iquatic life with long lasting effects.
• Precautionary s P210	
1210	Keen away from heat het surfaces snarks onen flames and other ignition sources
P261	
	smoking.
	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment.
P273 P280	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
P273 P280 P301+P310	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P273 P280 P301+P310 P302+P352	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water.
P273 P280 P301+P310	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit
P273 P280 P301+P310 P302+P352 P304+P341	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing.
P273 P280 P301+P310 P302+P352 P304+P341	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P P333+P313	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P P333+P313 P337+P313	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P P333+P313	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P P333+P313 P337+P313	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carl dioxide.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P. P333+P313 P337+P313 P370+P378	 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carl dioxide. Store in a well-ventilated place. Keep cool.
P273 P280 P301+P310 P302+P352 P304+P341 P305+P351+P3 P333+P313 P337+P313 P370+P378 P403+P235	 Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a posit comfortable for breathing. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carl dioxide.

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· 2.3 Other hazards None of the ingredients are included in the list established in accordance with Article 59(1) for having endocrine

disrupting properties. None of the ingredients are substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU) 2018/605.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

	Epoxy resin	3-75%
	🐼 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 120-92-3	Cyclopentanone	15-96%
EINECS: 204-435-9	🚸 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 108-32-7	Propylene carbonate	0.1-5%
EINECS: 203-572-1	🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 71449-78-0	Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)- hexafluoroantimonate(1-) (1:1)	0.05-2.5%
	🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Skin Sens. 1, H317	
CAS: 89452-37-9	Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)- hexafluoroantimonate (1-) (1:2)	0.05-2.5%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🔮 Skin Sens. 1, H317	

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

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

• After swallowing: Call for a doctor 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 Treat symptomatically.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

Alcohol resistant foam

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Fire-extinguishing powder

Carbon dioxide

- 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: Wear self-contained 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:
- Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. 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/exhaust at the workplace. Prevent formation of aerosols.
 Information about fire - and explosion protection:
- Keep ignition sources away Do not smoke. Use explosion-proof apparatus / fittings and spark-proof tools. Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and containers:

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

- Information about storage in one common storage facility:
- Do not store together with alkalis (caustic solutions).
- Do not store together with acids.
- Do not store together with oxidizing materials.
- Further information about storage conditions: Protect from heat and direct sunlight. Store in cool, dry conditions in well sealed containers. Store receptacle in a well ventilated area.
- · 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection · 8.1 Control parameters • Additional information about design of technical facilities: No further data; see section 7. · Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: • General protective and hygienic measures: Keep away from food and beverages. *Immediately remove all soiled and contaminated clothing* Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. • Respiratory protection: In case of low exposure use cartridge respirator. In case of intensive or longer exposure use self-contained respiratory protective device. • Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves Nitrile rubber, NBR · 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 goggles **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Clear to light yellow **Odour:** Sweetish • Odour threshold: Not determined. · pH-value: Not determined.

• Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 130 °C

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· Flash point:	30 °C				
· Flammability (solid, gas):	Flammable.				
• Auto-ignition temperature:	430 °C				
· Decomposition temperature:	Not determine	d.			
· Ignition temperature:	Product is not selfigniting.				
• Explosive properties:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.				
• Explosion limits:					
Lower:	Not determine				
Upper:	Not determine	d.			
· Vapour pressure:	Not determine	d.			
· Density:	Not determine	d.			
· Relative density	Not determine				
· Vapour density	Not determine				
· Evaporation rate	Not determine	d.			
• Solubility in / Miscibility with water:	Not miscible o	or difficult to	o mix.		
· Partition coefficient: n-octanol/water:	Not determine	d.			
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.				
9.2 Other information	Name	Number	Sp. Grav.	Vol.(%by wt.)	VOC (g/L)
	SU-8 2000.1	Y111004	0.955	96	920
	SU-8 2000.2	Y111007	0.962	93	900
	SU-8 2000.5	Y111014	0.981	86 79	840 790
	SU-8 2001 SU-8 2002	Y111022	0.998 1.024	78 71	780 725
	SU-8 2002 SU-8 2005	Y111029 Y111045	1.024	55	725 590
	SU-8 2005 SU-8 2007	Y111043 Y111053	1.072	33 47	590 520
	SU-8 2007 SU-8 2010	Y111055	1.104	42	460
	SU-8 2015	Y111064	1.124	36	410
	SU-8 2025	Y111069	1.133	31	355
	SU-8 2035	Y111070	1.137	30	340
	SU-8 2050	Y111072	1.142	28	322
	SU-8 2075	Y111074	1.146	26	300
	SU-8 2100	Y111075	1.151	25	285

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

^{• 10.2} Chemical stability Stable

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10.4 Conditions to avoid Contact with incompatible materials. Heat, flames and sparks. Extremes of temperature and direct sunlight.
10.5 Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases
10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Corrosive gases/vapours Danger of forming toxic pyrolysis products. Antimony oxide

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

120-92-3 Cyclopentanone

 Oral
 LD50
 1,820 mg/kg (Rat)

 Dermal
 LD50
 >2,000 mg/kg (rabbit)

Inhalative LC50/4 h 19.5 mg/l (Rat)

· Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

- Additional toxicological information:
- 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 Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

•	12.1	Toxicity
---	------	-----------------

	clopentanone 2,950 mg/L (golden orfe)	
	>100 mg/l (fish)	
EC50/48 h	3,600 mg/l (Ceriodaphnia dubia (water flea))	
	100 mg/l (daphnia magna)	
EC50/72 h	>100 mg/l (scenedesmus subspicatus)	
12.2 Persist	ence and degradability No further relevant information available.	
12.3 Bioacc	umulative potential No further relevant information available.	
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- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

- Toxic for 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.

14.1 UN-Number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name ADR, IATA IMDG	RESIN SOLUTION RESIN SOLUTION (Sulfonium, diphenyl[4-(phenylthi phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1 Sulfonium, (thiodi-4,1- phenylene) bis[diphenyl-,(OC-6-11 hexafluoroantimonate(1-) (1:2)), MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	3 Flammable liquids.
ADR, IMDG, IATA	3 Flammable liquids. 3
ADR, IMDG, IATA	
ADR, IMDG, IATA	3



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· EMS Number: · Stowage Category	<i>F-E,<u>S-E</u> A</i>
· 14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
• Tunnel restriction code	D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1866 RESIN SOLUTION, 3, III

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
- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· 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

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

• Department issuing SDS: Product safety department

· *Contact: Tom Cole, EHS Manager (tcole@kayakuam.com)*

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• Abbreviations and acronyms: ADR: Accord relatif au transport international 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2