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

· **1.1 Product identifier**

· **Trade name: TOK-SK Primer**

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

· **Application of the substance / the preparation:**
Adhesives, sealants
Coatings and paints, thinners, paint removers
Non-metal-surface treatment products
Building and construction work
Plastic articles

· **Uses advised against:** No further relevant information available.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
BVH
BITUMEN Vertrieb und Handel GmbH
Aue-Park-Allee 7
06237 Leuna
Tel.: +49 (0) 346 38 3603-0
Fax: +49 (0) 346 38 3603-29
Email: info@bvh-bitumen.de

· **1.4 Emergency telephone number:** Tel.: +49 (0)361 730730, 24h (Erfurt)

SECTION 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.
Repr. 2	H361f	Suspected of damaging fertility.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
n-hexane
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H361f Suspected of damaging fertility.
H336 May cause drowsiness or dizziness.

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H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** No
· **vPvB:** No

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Dangerous components:**		
EC number: 921-024-6 Reg.nr.: 01-2119475514-35-XXXX	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	40-55%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	4-5%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	1-4.9%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	1-4.9%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	1-4.9%

· **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:**
Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** Supply fresh air.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.
· **After eye contact:** Remove contact lenses, if present and easy to do. Continue rinsing.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do NOT induce vomiting.
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**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
CO_2, sand, extinguishing powder. Do not use water.
Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide
Carbon dioxide
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents
Dispose of the material collected according to regulations.
· **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 interior ventilation, especially at floor level. (Fumes are heavier than air).
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.

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Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 1330-20-7 xylene	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
CAS: 110-82-7 cyclohexane	
WEL (Great Britain)	Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm
IOELV (EU)	Long-term value: 700 mg/m³, 200 ppm
CAS: 110-54-3 n-hexane	
WEL (Great Britain)	Long-term value: 72 mg/m³, 20 ppm
IOELV (EU)	Long-term value: 72 mg/m³, 20 ppm
CAS: 100-41-4 ethylbenzene	
WEL (Great Britain)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin

· **DNELs**		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	DNEL(long/systemic)	699 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	699 mg/kg bw/day (Consumer)
		773 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	608 mg/m3 (Consumer)
		2035 mg/m3 (Workers (Industrial/Professional))

· **Ingredients with biological limit values:**	
CAS: 1330-20-7 xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.
The usual precautionary measures are to be adhered to when handling chemicals.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
· **Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: ≥ ≥ 0.4 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **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

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	Light yellow
· **Odour:**	Solvent-like
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	>70 °C (ASTM D-1078)
· **Flash point:**	-18 °C (DIN 51755)
· **Flammability (solid, gas):**	Not applicable.

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· **Ignition temperature:**	>200 °C (DIN 51794)
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
Lower:	0.8 Vol %
Upper:	7.7 Vol %
· **Oxidising properties**	No
· **Vapour pressure at 20 °C:**	61 hPa
· **Density at 20 °C:**	0.8 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Insoluble.

· **Partition coefficient: n-octanol/water:**

1330-20-7	xylene	3,2 logPow @ 20 °C
110-82-7	cyclohexane	3,4 (logPow)
110-54-3	n-hexane	3,9 (logPow)
100-41-4	ethylbenzene	3,6 logPow @ 20 °C (EU Method A.8)

· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
VOC (EC)	68.00 %
Solids content:	ca. 32 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability** No decomposition if used and stored according to specifications.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** Vapours may form explosive mixtures with air.
· **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
· **10.5 Incompatible materials:** Reacts with strong oxidising agents.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

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

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· **LD/LC50 values relevant for classification:**		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	> 5840 mg/kg (Rat) Read-across
Dermal	LD50	> 2800 - 3100 mg/kg (Rat) Read-across
Inhalative	LC50 (4h)	> 25.2 mg/L (Rat)
CAS: 1330-20-7 xylene		
Oral	LD50	3523 mg/kg (Rat) (EU Method B.1)
CAS: 110-82-7 cyclohexane		
Oral	LD50	> 5000 mg/kg (Rabbit)
Dermal	LD50	> 2000 mg/kg (Rabbit)
Inhalative	LC50 (4h)	13.9 mg/L (Rat)
CAS: 100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (Rat)
Dermal	LD50	15400 mg/kg (Rabbit)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity**
Suspected of damaging fertility.
· **STOT-single exposure**
May cause drowsiness or dizziness.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
EC50 (static)	0.23 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) 21d Read-across
NOEL (72h) (static)	3 mg/L (Algae) (OECD Guideline 201,Pseudokirchneriella subcapitata)
CAS: 1330-20-7 xylene	
LC50 (96h)	2.6 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Read-across
EC50 (3h)	>157 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Read-across

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EC50 (static)	2.2 mg/L (Algae) (OECD Guideline 201,Pseudokirchneriella subcapitata) 73h Read-across, Pseudokirchnerella subcapitata
NOEC	0.96 mg/L (Daphnia) (US EPA 600/4-91-003) 7d Ceriodaphnia dubia Read-across
	> 1.3 mg/L (Fish) (Oncorhynchus mykiss) 56d
IC50 (static)	1 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) Read-across
CAS: 110-82-7 cyclohexane	
LC50 (96h)	9.0 mg/L (Fish) (Oryzias laties)
EC50	340 mg/L (Daphnia) (Daphnia magna)
CAS: 110-54-3 n-hexane	
LC50 (96h)	2.5 mg/L (Fish) (Geiger et al. 1990, Pimephales promelas)
CAS: 100-41-4 ethylbenzene	
LC50 (48h) (static)	1.8 mg/L (Daphnia) (EPA method F, Daphnia magna)
LC50 (96h) (dynamic)	5.1 mg/L (Fish) saltwater
EC50 (48h)	7.2 mg/L (Algae) (U.S. EPA. 1985, Pseudokirchneriella subcapitata)
EC50 (24h)	96 mg/L (Bacteria)
NOEC	0.96 mg/L (Invertebrates) (U.S. EPA 600/4-91-003EPA, Ceriodaphnia dubia) 7d

· **12.2 Persistence and degradability**

	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	98 % (28d, OECD Guideline 301 F)
1330-20-7	xylene	87,8 % (28d, OECD Guideline 301 F)
100-41-4	ethylbenzene	70-80 % @28d (ISO 14593-CO2-Headspace Test)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation:** Must be specially treated adhering to official regulations.

· **European waste catalogue**	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging**
· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR/RID/ADN, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN**	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· **IMDG**	PAINT (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, CYCLOHEXANE), MARINE POLLUTANT
· **IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR/RID/ADN, IMDG**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: cyclohexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR/RID/ADN):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Danger code (Kemler):**	33
· **EMS Number:**	F-E,S-E
· **Stowage Category**	B
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**	Not applicable.
· **Transport/Additional information:**	
· **ADR/RID/ADN**	
· **Tunnel restriction code**	D/E
· **UN "Model Regulation":**	UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS

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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
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 57

· **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**
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.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:**
BVH
BITUMEN Vertrieb und Handel GmbH
Aue-Park-Allee 7
D-06237 Leuna

· **Abbreviations and acronyms:**
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
ASTM: American Society for Testing and Materials
WAF: Water Accommodated Fraction
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3