

SAFETY DATA SHEET

Ink cartridge (Black)

IP5-204

OKI DATA INFOTECH CORPORATION



Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier Product Name : Ink cartridge(Black) Product Code : IP5-204		
1.2 Relevant identified uses of the substance or mixture and uses advised against		
	nkjet Ink	
1.3 Details of the supplier of the safe	-	
	0KI Data Infotech Corporation	
	63, Takatsuka-Shinden, Matsudo-shi, Chiba, 270-2222,Japan el:+81-47-391-2349	
	DKI Europe Ltd. Wide Format Division	
	iemensstrase 9, D-63263 Neu-Isenburg	
	Germany	
	49 (0) 6102 297 400	
2. HAZARDS IDENTIFICATION		
2.1 Classification of the substance of	r mixture	
<regulation (ec)="" 1272<="" no.="" td=""><td></td></regulation>		
Classification		
Skin irritation, Category 2	H315: Causes skin irritation.	
Reproductive toxicity,	H360Df: May damage the unborn child. Suspected of	
Category 1B	damaging fertility.	
<1999/45/EC >		
Toxic to Reproduction Category	-	
Toxic to Reproduction Category		
Irritant 2.2 Label elements	R38: Irritating to skin.	
	/2008~	
<regulation (ec)="" 1272="" 2008="" no.=""> Hazard pictograms</regulation>		
Signal word:	Danger	
Hazard statements	H315 Causes skin irritation.	
	H360Df May damage the unborn child. Suspected of damaging fertility.	
Precautionary statements		
Prevention:	P201 Obtain special instructions before use.	
	P202 Do not handle until all safety precautions have been read and understood.	
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.	
Response:	P308 + P313 IF exposed or concerned: Get medical ad-vice/ attention.	
	P332 + P313 If skin irritation occurs: Get medical advice/ attention.	



Hazardous components which must be listed on the label:

bis(2-(2-methoxyethoxy)ethyl) ether

2.3 Other hazards

Vapours may form explosive mixture with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main Ingredients	Content (%)	CAS-No.	EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)
bis(2-ethoxyethyl)ether	70-80	112-36-7	203-963-7	Xi; R38	Skin Irrit. 2; H315
bis(2-(2-methoxyethoxy)ethyl) ether	5-15	143-24-8	205-594-7	Repr.Cat.2; R61 Repr.Cat.3; R62	Repr. 1B; H360Df
Carbon black	1-10	1333-86-4	215-609-9	None	None

Other components (listed on EINECS, NLP or ELINCS) are not hazardous according to the directives mentioned above.

4. FIRST-AID MEASURES

4.1 Description of first aid measures

		-
	General advice:	In the case of accident or if you feel unwell, seek medical ad-vice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
	Protection of first-aiders:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
	If inhaled:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
	In case of skin contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	In case of eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately
	If swallowed:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 N	Nost important symptoms and	effects, both acute and delayed
	Risks:	Causes skin irritation. May damage the unborn child. Suspected of damaging fertili-ty.
4.3 lı	ndication of any immediate me	edical attention and special treatment needed
	Treatment:	Treat symptomatically and supportively

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media



Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable Extinguishing Me	edia
	High volume water jet
5.2 Special hazards arising from t	he substance or mixture
Specific hazards during fire-fighting:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion products:	Carbon oxides
5.3 Advice for firefighters	
Special protective equipmen for fire-fighters:	t In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers/tanks with water spray. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
6. ACCIDENTAL RELEASE ME	
6.1 Personal precautions, protecti	ive equipment and emergency procedures
Personal precautions:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
6.2 Environmental precautions	
Environmental precautions:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for cont	ainment and cleaning up
Methods for cleaning up:	Non-sparking tools should be used. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in

appropriate container.

Clean up remaining materials from spill with suitable

disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information



regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling	
Technical measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation:	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Advice on safe handling:	Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.
7.2 Conditions for safe storage, inc	cluding any incompatibilities
Requirements for storage areas and containers:	Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Advice on common storage:	Do not store with the following product types: Strong oxidizing agents Explosives Gases
7.3 Specific end use(s)	
Specific use(s):	No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

bis(2-ethoxyethyl)ether:

Carbon black	1333-86-4	TWA	3.5 mg/m3	GB EH40
		STEL	7.0 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 50.5 mg/m3 End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 3.43 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation



	Potential health effects: Long-term systemic effects Value: 5.96 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 1.71 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 300 mg/kg bw/day
bis(2-(2-methoxyethoxy)ethyl) ether:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 22 mg/m3 End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 3 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0.5 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 0.001 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 0.001 mg/kg bw/day
Predicted No Effect Concentration (PNEC) a	according to Regulation (EC) No. 1907/2006:
bis(2-(2-methoxyethoxy)ethyl) ether:	Fresh water Value: 32 mg/l Marine water Value: 3.2 mg/l Intermittent use/release Value: 50 mg/l Sewage treatment plant Value: 500 mg/l Fresh water sediment Value: 127 mg/kg Marine sediment Value: 12.7 mg/kg Soil Value: 6.7 mg/kg Oral Value: 8.32 mg/kg
8.2 Exposure controls	
Engineering measures:	Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.
Personal protective equipment	
Eye protection:	Wear the following personal protective equipment: Safety glasses
Hand protection	
Material:	Impervious gloves



	Flame retardant gloves
Remarks:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Skin and body protection:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Respiratory protection	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type:	Organic vapour type (A)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance:	liquid
Color:	black
Odor	solvent-like
Odor Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	71 °C
	Method: Cleveland open cup
Evaporation rate:	No data available
Flammability (solid, gas)	Not applicable
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	0.9-1.1g/cm3 (25°C)
Water solubility:	soluble
Solubility in other solvents	soluble Solvent: organic solvents
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	5 - 15 mPa.s (25 °C)
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

9.2 Other information



	No data available
10. STABILITY AND REACTIVI	TY
10.1 Reactivity	
Not classified as a reactivity	hazard.
10.2 Chemical stability	
Stable under normal condition	ons.
10.3 Possibility of hazardous reac	tions
Hazardous reactions:	Combustible liquid. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid:	Heat, flames and sparks.
10.5 Incompatible materials	
Materials to avoid:	Oxidizing agents
10.6 Hazardous decomposition pr	oducts
No hazardous decomposition	n products are known.
11. TOXICOLOGICAL INFORM	
11.1 Information on toxicological e	effects
Information on likely routes of exposure:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity:	Not classified based on available information.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Acute oral toxicity:	LD50 (Rat): 4,970 mg/kg
<bis(2-(2-methoxyethoxy)eth< td=""><td>nyl) ethere></td></bis(2-(2-methoxyethoxy)eth<>	nyl) ethere>
Acute oral toxicity:	LD50 (Rat): 3,850 mg/kg

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Acute dermal toxicity:	LD50 (Rat): > 6,900 mg/kg Remarks: Based on data from similar materials
in corrosion/irritation:	Causes skin irritation.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Result:	Skin irritation
Remarks:	Based on data from similar materials
<bis(2-(2-methoxyethoxy)eth< td=""><td>yl) ether></td></bis(2-(2-methoxyethoxy)eth<>	yl) ether>
Species:	Rabbit
Method:	OECD Test Guideline 404
Result:	No skin irritation
erious eye damage/eye irritation:	
	Not classified based on available information.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	

Species:	Rabbit
Method:	OECD Test Guideline 405
Result:	No eye irritation

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<bis(2-(2-methoxyethoxy)eth< th=""><th>yl) ether></th></bis(2-(2-methoxyethoxy)eth<>	yl) ether>
Species:	Rabbit
Method:	OECD Test Guideline 405
Result:	No eye irritation
Respiratory or skin sensitisation	
Skin sensitization:	Not classified based on available information.
Respiratory sensitisation:	Not classified based on available information.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Test Type:	Local lymph node assay (LLNA)
Exposure routes:	Skin contact
Species:	Mouse
Method:	OECD Test Guideline 429
Result:	negative
Remarks:	Based on data from similar materials
<bis(2-(2-methoxyethoxy)eth< td=""><td>yl) ether></td></bis(2-(2-methoxyethoxy)eth<>	yl) ether>
Test Type:	Local lymph node assay (LLNA)
Exposure routes:	Skin contact
Species:	Mouse
Method:	OECD Test Guideline 429
Result:	negative
Remarks:	Based on data from similar materials
Germ cell mutagenicity	Not classified based on available information.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
 <bis(2-(2-methoxyethoxy)ethyl) et<="" td=""><td>her></td></bis(2-(2-methoxyethoxy)ethyl)>	her>
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	May damage the unborn child. Suspected of damaging fertility.
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Effects on fertility	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal development	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative
<bis(2-(2-methoxyethoxy)eth< td=""><td>•</td></bis(2-(2-methoxyethoxy)eth<>	•
Effects on fertility	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: positive



Effects on foetal development	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive
Reproductive toxicity - Assessment	Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
STOT - single exposure:	Not classified based on available information.
STOT - repeated exposure:	Not classified based on available information.
Repeated dose toxicity	
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	
Species:	Rat
NOAEL:	2.49 mg/l
Application Route:	inhalation (dust/mist/fume)
Exposure time:	4 w
Method:	OECD Test Guideline 412
<bis(2-(2-methoxyethoxy)et< td=""><td>hyl) ether></td></bis(2-(2-methoxyethoxy)et<>	hyl) ether>
Species:	Rat
NOAEL:	250 mg/kg
Application Route:	Ingestion
Exposure time:	28 d
Method:	OECD Test Guideline 407
Remarks:	Based on data from similar materials
Remarks: Aspiration toxicity:	Based on data from similar materials Not classified based on available information.
Aspiration toxicity:	Not classified based on available information.
Aspiration toxicity: 12. ECOLOGICAL INFORMAT	Not classified based on available information.
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity	Not classified based on available information.
Aspiration toxicity: 12. ECOLOGICAL INFORMAT	Not classified based on available information.
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	Not classified based on available information. TON LC50 : > 10,000 mg/l Exposure time: 96 h
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	Not classified based on available information. TION LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""> Toxicity to fish: Toxicity to daphnia and oth</bis(2-ethoxyethyl)>	Not classified based on available information. TION LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""> Toxicity to fish: Toxicity to daphnia and oth aquatic invertebrates:</bis(2-ethoxyethyl)>	Not classified based on available information. TION LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""> Toxicity to fish: Toxicity to daphnia and oth aquatic invertebrates: Toxicity to bacteria: Toxicity to daphnia and oth aquatic invertebrates (Chronic toxicity):</bis(2-ethoxyethyl)>	Not classified based on available information. TON LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 her EC10: 7.38 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""> Toxicity to fish: Toxicity to daphnia and oth aquatic invertebrates: Toxicity to bacteria: Toxicity to daphnia and oth aquatic invertebrates</bis(2-ethoxyethyl)>	Not classified based on available information. TON LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 her EC10: 7.38 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials
Aspiration toxicity: 12. ECOLOGICAL INFORMAT 12.1 Toxicity <bis(2-ethoxyethyl) ether=""> Toxicity to fish: Toxicity to daphnia and oth aquatic invertebrates: Toxicity to bacteria: Toxicity to daphnia and oth aquatic invertebrates (Chronic toxicity): <bis(2-(2-methoxyethoxy)ether)< td=""><td>Not classified based on available information. TION LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 her EC10: 7.38 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials hyl) ether> LC50 (Danio rerio (zebra fish)): > 5,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials</td></bis(2-(2-methoxyethoxy)ether)<></bis(2-ethoxyethyl)>	Not classified based on available information. TION LC50 : > 10,000 mg/l Exposure time: 96 h her LC50 : 6,600 mg/l Exposure time: 96 h NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 her EC10: 7.38 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials hyl) ether> LC50 (Danio rerio (zebra fish)): > 5,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials



Toxicity to bacteria:	mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC10 : >= 5,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
	Remarks: Based on data from similar materials		
Toxicity to daphnia and oth aquatic invertebrates : (Chronic toxicity)	ner NOEC: 320 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211		
12.2 Persistence and degradabilit			
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>	,		
Biodegradability:	Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F		
<bis(2-(2-methoxyethoxy)ethyl) et<="" td=""><td></td></bis(2-(2-methoxyethoxy)ethyl)>			
Biodegradability:	Result: Inherently biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD Test Guideline 302B Remarks: Based on data from similar materials		
12.3 Bioaccumulative potential			
<bis(2-ethoxyethyl) ether=""></bis(2-ethoxyethyl)>			
Partition coefficient: n-octa	nol/water: log Pow: 0.39		
<bis(2-(2-methoxyethoxy)etherapy (2-(2-methoxy)etherapy))<="" td=""><td>nyl) ether></td></bis(2-(2-methoxyethoxy)etherapy>	nyl) ether>		
Partition coefficient: n-octa	nol/water: log Pow: -0.84		
12.4 Mobility in soil			
No data available			
12.5 Results of PBT and vPvB as	sessment		
Not relevant			
12.6 Other adverse effects			
No data available			
13. DISPOSAL CONSIDERATI 13.1 Waste treatment methods	ONS		
Product:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.		
Contaminated packaging:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.		

- 14.1 UN number
 - Not regulated as a dangerous good
- 14.2 UN proper shipping name



Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable Regulation (EC) No 1005/2009 on substances that deplete the ozone laver: Not applicable Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable Take note of Dir 94/33/EC on the protection of young people at work. Other regulations: Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Full text of R-Phrases

R38:Irritating to skin.

R61:May cause harm to the unborn child.

R62:Possible risk of impaired fertility.

Full text of H-Statements

H315:Causes skin irritation.

H360Df:May damage the unborn child. Suspected of damaging fertili-ty.

Full text of other abbreviations

Repr.: Reproductive toxicity

Skin Irrit.: Skin irritation

Further information

Sources of key data used to compile the Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge,



information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.