

SAFETY DATA SHEET

Ink pack/Sub cartridge (Gray)

IP7-107/IP7-117

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 pack /Sub cartridge (Gray)
 Product Code : IP7-107/IP7-117

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

1.3 Details of the supplier of the safety data sheet
 Manufacturer's Name : OKI Data Infotech Corporation
 563, Takatsuka-Shinden, Matsudo-shi, Chiba, 270-2222, Japan
 Tel:+81-47-391-2349

Distributor:
 OKI Europe Ltd. Wide Format Division
 Siemensstrase 9, D-63263 Neu-Isenburg
 Germany
 +49 (0) 6102 297 400

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

<Regulation (EC) No. 1272/2008>

Classification

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Serious eye damage, Category 1 <1999/45/EC >	H318: Causes serious eye damage.
Harmful	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
Irritant	R41: Risk of serious damage to eyes.

2.2 Label elements

<Regulation (EC) No. 1272/2008>

Hazard pictograms



Signal word:	Danger
Hazard statements	Harmful if swallowed or in contact with skin. Causes serious eye damage.

Precautionary statements

Prevention:

Do not eat, drink or smoke when using this product
 Wear eye protection/ face protection.
 Wear protective gloves/ protective clothing.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/

physician.

Hazardous components which must be listed on the label:

2-Butoxyethyl acetate

γ-butyrolactone

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)
2-Butoxyethyl acetate	80-90	112-07-2	203-933-3	Xn; R20/21/22	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332
γ-butyrolactone	1-10	96-48-0	202-509-5	Xn; R22 Xi; R41 R67	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H336
Carbon Black	0.1-5	1333-86-4	215-609-9	None	None
Bis(2-ethoxyethyl) ether	<5	112-36-7	203-963-7	Xi; R38	Skin Irrit. 2; H315

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 advice 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 Most important symptoms and effects, both acute and delayed

Risks:	Harmful if swallowed or in contact with skin Causes serious eye damage.
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4.3 Indication of any immediate medical 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 Media

High volume water jet

5.2 Special hazards arising from the 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 equipment for firefighters: 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 MEASURES

6.1 Personal precautions, protective 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 containment 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 absorbent.

Local or national regulations may apply to releases and 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, including 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
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m ³	2000/39/EC
		STEL	50 ppm 333 mg/m ³	2000/39/EC
		TWA	20 ppm	GB EH40
		STEL	50 ppm	GB EH40

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:

2-Butoxyethyl acetate:

End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Long-term systemic effects
 Value: 133 mg/m3
 End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Acute systemic effects
 Value: 775 mg/m3
 End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Acute local effects
 Value: 333 mg/m3
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Long-term systemic effects
 Value: 102 mg/kg
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Acute systemic effects
 Value: 102 mg/kg
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Long-term systemic effects
 Value: 67 mg/m3
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Acute systemic effects
 Value: 499 mg/m3
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Acute local effects
 Value: 166 mg/m3
 End Use: Consumers
 Exposure routes: Skin contact
 Potential health effects: Long-term systemic effects
 Value: 36 mg/kg
 End Use: Consumers
 Exposure routes: Skin contact
 Potential health effects: Acute systemic effects
 Value: 27 mg/kg
 End Use: Consumers
 Exposure routes: Ingestion
 Potential health effects: Long-term systemic effects
 Value: 4.3 mg/kg
 End Use: Consumers
 Exposure routes: Ingestion
 Potential health effects: Acute systemic effects
 Value: 18 mg/kg

γ-butyrolactone:

End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Long-term systemic effects
 Value: 130 mg/m3
 End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Acute systemic effects

Value: 958 mg/m³
End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 19 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 28 mg/m³
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 340 mg/m³
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 8 mg/kg
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 8 mg/kg

bis(2-ethoxyethyl)ether

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

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-Butoxyethyl acetate :

Fresh water
Value: 0.304 mg/l
Marine water
Value: 0.0304 mg/l
Intermittent use/release
Value: 0.56 mg/l
Sewage treatment plant
Value: 90 mg/l
Fresh water sediment
Value: 2.03 mg/kg
Marine sediment
Value: 0.203 mg/kg
Soil
Value: 0.68 mg/kg
Oral
Value: 0.06 g/kg

γ-butyrolactone:
 Fresh water
 Value: 0.056 mg/l
 Marine water
 Value: 0.0056 mg/l
 Intermittent use/release
 Value: 0.56 mg/l
 Sewage treatment plant
 Value: 452 mg/l
 Fresh water sediment
 Value: 0.24 mg/kg
 Marine sediment
 Value: 0.02 mg/kg
 Soil
 Value: 0.0147 mg/kg

8.2 Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation.

Personal protective equipment

Eye protection: Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield

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

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:	75 °C Method: Seta closed cup
Evaporation rate:	No data available
Flammability (solid, gas)	Not applicable
Upper explosion limit:	8.54 %(V) (135 °C)
Lower explosion limit:	0.88 %(V) (93 °C)
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	0.96-1.00g/cm ³ (25°C)
Water solubility:	1.1 g/l partly soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
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 REACTIVITY

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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 products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Inhalation, Skin contact, Ingestion, Eye contact

Acute toxicity: Harmful if swallowed or in contact with skin

Product:

Acute oral toxicity: Acute toxicity estimate : 1,940 mg/kg
Method: Calculation method

Acute inhalation toxicity	Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity:	Acute toxicity estimate : 1,765 mg/kg Method: Calculation method
Components:	
<2-Butoxyethyl acetate>	
Acute oral toxicity:	LD50 (Rat): 1,880 mg/kg
Acute inhalation toxicity	Acute toxicity estimate : 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Expert judgement Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
Acute dermal toxicity:	LD50 (Rabbit): 1,500 mg/kg
<γ-butyrolactone>	
Acute oral toxicity:	LD50 (Rat): 1,582 mg/kg
Acute dermal toxicity:	LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist
<Bis(2-ethoxyethyl) ether>	
Acute oral toxicity:	LD50 (Rat): 4,970 mg/kg
Skin corrosion/irritation:	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Species:	Rabbit
Result:	No skin irritation
<γ-butyrolactone>	
Species:	Rabbit
Result:	No skin irritation
<Bis(2-ethoxyethyl) ether>	
Result:	Skin irritation
Remarks:	Based on data from similar materials
Serious eye damage/eye irritation:	Causes serious eye damage.
Components:	
<2-Butoxyethyl acetate>	
Species:	Rabbit
Result:	No eye irritation
<γ-butyrolactone>	
Species:	Rabbit
Method:	OECD Test Guideline 405
Result:	Irreversible effects on the eye
<Bis(2-ethoxyethyl) ether>	
Species:	Rabbit
Method:	OECD Test Guideline 405

Result:	No eye irritation
Respiratory or skin sensitization:	
Skin sensitisation:	Not classified based on available information.
Respiratory sensitisation:	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Test Type:	Buehler Test
Exposure routes:	Skin contact
Species:	Guinea pig
Result:	negative
<γ-butyrolactone>	
Test Type:	Local lymph node assay (LLNA)
Exposure routes:	Skin contact
Species:	Mouse
Method:	OECD Test Guideline 429
Result:	negative
<Bis(2-ethoxyethyl) 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.
Components:	
<2-Butoxyethyl acetate>	
Genotoxicity in vitro	
Test Type:	In vitro mammalian cell gene mutation test
Result:	negative
Remarks:	Based on data from similar materials
Genotoxicity in vitro	
Test Type:	Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species:	Mouse
Application Route:	Intraperitoneal injection
Result:	negative
Remarks:	Based on data from similar materials
<γ-butyrolactone>	
Test Type:	Bacterial reverse mutation assay (AMES)
Result:	negative
<Bis(2-ethoxyethyl) ether>	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials

Carcinogenicity	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Species:	Rat
Application Route:	inhalation (vapour)
Exposure time:	2 Years
Result:	negative
Remarks:	Based on data from similar materials
<γ-butyrolactone>	
Species:	Rat
Application Route:	Ingestion
Exposure time:	103 weeks
Result:	negative
Carbon black	IARC Group 2B
Reproductive toxicity	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Effects on fertility	
Test Type:	Two-generation reproduction toxicity study
Species:	Mouse
Application Route:	Ingestion
Result:	negative
Remarks:	Based on data from similar materials
Effects on foetal development	
Test Type:	Embryo-foetal development
Species:	Rat
Application Route:	Ingestion
Result:	negative
Remarks:	Based on data from similar materials
<γ-butyrolactone>	
Effects on fertility	
Test Type:	Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species:	Rat
Application Route:	Ingestion
Method:	OECD Test Guideline 422
Result:	negative
Remarks:	Based on data from similar materials
Effects on foetal development	
Test Type:	Embryo-foetal development
Species:	Rat
Application Route:	Ingestion
Remarks:	Based on data from similar materials
Result:	negative

<Bis(2-ethoxyethyl) ether>

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

STOT - single exposure:

Not classified based on available information.

Components:

<γ-butyrolactone>

Assessment:

May cause drowsiness or dizziness.

STOT - repeated exposure:

Not classified based on available information.

Repeated dose toxicity

Components:

<2-Butoxyethyl acetate>

Species: Rat, male
 NOAEL: < 69 mg/kg
 Application Route: ingestion
 Exposure time: 90 d

<γ-butyrolactone>

Species: Rat
 NOAEL: 225 mg/kg
 Application Route: Ingestion
 Exposure time: 13 w

<Bis(2-ethoxyethyl) ether>

Species: Rat
 NOAEL: 2.49 mg/l
 Application Route: inhalation (dust/mist/fume)
 Exposure time: 4 w
 Method: OECD Test Guideline 412

Aspiration toxicity:

Not classified based on available information.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Components:

<2-Butoxyethyl acetate>

Toxicity to fish: LC50 (*Oncorhynchus mykiss* (rainbow trout)): 28 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia magna* (Water flea)): 37 mg/l
 Exposure time: 48 h

Toxicity to algae: EC50 (*Pseudokirchneriella subcapitata* (green algae)): 1,570 mg/l
 Exposure time: 72 h
 Method: ISO 8692

Toxicity to bacteria:	IC50 : 2,800 mg/l Exposure time: 16 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	EC10: 30.4 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)
<γ-butyrolactone>	
Toxicity to fish:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 56 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae:	EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h NOEC (Desmodesmus subspicatus (green algae)): 31.25 mg/l Exposure time: 72 h
Toxicity to bacteria:	IC50 : 4,518 mg/l Exposure time: 40 h
<Bis(2-ethoxyethyl) ether>	
Toxicity to fish:	LC50 : > 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	LC50 : 6,600 mg/l Exposure time: 96 h
Toxicity to bacteria:	NOEC : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	EC10: 7.38 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

<2-Butoxyethyl acetate>

Biodegradability: Result: Readily biodegradable.
Biodegradation: 88 %
Exposure time: 28 d

<γ-butyrolactone>

Biodegradability: Result: Readily biodegradable.
Biodegradation: 77 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

<Bis(2-ethoxyethyl) ether>

Biodegradability: Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

<2-Butoxyethyl acetate>

Partition coefficient: log Pow: 1.51
n-octanol/water:

<γ-butyrolactone>

Partition coefficient: log Pow: -0.566
n-octanol/water:

<Bis(2-ethoxyethyl) ether>

Partition coefficient: log Pow: 0.39
n-octanol/water:

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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. TRANSPORT INFORMATION

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 Not applicable the Council concerning the export and import of dangerous chemicals:

REACH - Candidate List of Substances of Very High Concern Not applicable for Authorisation (Article 59).:

Regulation (EC) No 1005/2009 on substances that deplete the Not applicable ozone layer:

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive Not applicable

96/82/EC on the control of major-accident hazards involving dangerous substances:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Full text of R-Phrases

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R22: Harmful if swallowed.
R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R67: Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.

Full text of other abbreviations

Acute Tox. : Acute toxicity.
Eye Dam. : Serious eye damage.
STOT SE: Specific target organ toxicity - single exposure.
2000/39/EC: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40: UK. EH40 WEL - Workplace Exposure Limits.
2000/39/EC / TWA: Limit Value - eight hours.
2000/39/EC / STEL: Short term exposure limit.
GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period).
GB EH40 / STEL: Short-term exposure limit (15-minute reference period).

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.