

SAFETY DATA SHEET

Ink cartridge (Black)
IP6-104

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: IP6-104

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

H312: Harmful in contact with skin. Acute toxicity, Category 4 Reproductive toxicity, Category 1B H360D: May damage the unborn child.

<1999/45/EC >

Toxic to Reproduction Category 1

R61: May cause harm to the unborn child.

Harmful R20/21/22: Harmful by inhalation, in contact with skin and if

swallowed.

2.2 Label elements

<Regulation (EC) No. 1272/2008>

Hazard pictograms





Signal word: Danger

Hazard statements H312 Harmful in contact with skin.

H360D May damage the unborn child.

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: P302 + P352 + P312 IF ON SKIN: Wash with plenty of wa-ter.

Call a POISON CENTER or doctor/ physician if you feel

unwell.

P308 + P313 IF exposed or concerned: Get medical ad-vice/

attention.

Hazardous components which must be listed on the label:



2-Butoxyethyl acetate N-Methyl-2-pyrrolidone

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		Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332
N-Methyl-2-pyrrolidone	<5	872-50-4	212-828-1	Repr.Cat.2; R61 Xi; R36/37/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 3; H335
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

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: Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water

4.2 Most important symptoms and effects, both acute and delayed Risks:

Harmful in contact with skin.

May damage the unborn child.

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 Water spray

media: 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

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment In the event of fire, wear self-contained breathing apparatus.

for firefighters:

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

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/m3	2000/39/EC
		STEL	50 ppm 333 mg/m3	2000/39/EC
		TWA	20 ppm	GB EH40
		STEL	50 ppm	GB EH40
N-Methyl-2-pyrrolidone	872-50-4	TWA	10 ppm 40 mg/m3	2009/161/EU
			20 ppm 80 mg/m3	2009/161/EU
		TWA	10 ppm 40 mg/m3	GB EH40



			20 ppm 80 mg/m3	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 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 40 mg/m3 End Use: Workers

Issuing Date: 1 October, 2015

N-Methyl-2-pyrrolidone



Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 80 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 19.8 mg/kg bw/day

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Acute systemic effects

Value: 208 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 12.5 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 80 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 11.9 mg/kg bw/day End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Acute systemic effects

Value: 125 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 6.3 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion

Potential health effects: Acute systemic effects

Value: 26 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

N-Methyl-2-pyrrolidone Fresh water

Value: 0.25 mg/l Marine water Value: 0.025 mg/l Intermittent use/release

Value: 5 mg/l

Sewage treatment plant



Value: 10 mg/l

Fresh water sediment Value: 1.42 mg/kg Marine sediment Value: 0.142 mg/kg

Soil

Value: 0.138 mg/kg

Oral

Value: 0.00167 g/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 goggles

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).

Use respiratory protection unless adequate local exhaust Respiratory protection

> ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Organic vapour type (A) Filter type:

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 No data available

boiling range: Flash point:

73 °C

Method: Seta closed cup

Evaporation rate: No data available



Flammability (solid, gas)

Upper explosion limit:

Lower explosion limit:

Vapour pressure:

Relative vapour density:

Not applicable

No data available

No data available

No data available

Density: 0.96-1.00g/cm3 (25°C)

Water solubility: No data available Partition coefficient: Not applicable

n-octanol/water:

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

Inhalation, Skin contact, Ingestion, Eye contact

exposure:

Acute toxicity: Harmful if swallowed or in contact with skin

Product:

Acute oral toxicity: Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: 1,667 mg/kg

Method: Calculation method



Components:

<2-Butoxyethyl acetate>

Acute oral toxicity: LD50 (Rat): 1,880 mg/kg

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

< N-Methyl-2-pyrrolidone>

Acute oral toxicity: LD50 (Rat): 4,150 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC50 (Rat): > 5.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-tion

toxicity

Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation: Not classified based on available information.

Components:

<2-Butoxyethyl acetate>

Species: Rabbit

Result: No skin irritation

< N-Methyl-2-pyrrolidone>

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Serious eye damage/eye irritation: Causes serious eye damage.

Components:

<2-Butoxyethyl acetate>

Species: Rabbit

Result: No eye irritation

< N-Methyl-2-pyrrolidone>

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

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

< N-Methyl-2-pyrrolidone>



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 vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

N-

< N-Methyl-2-pyrrolidone>

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 474

Result: negative

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

< N-Methyl-2-pyrrolidone>

Species: Mouse Application Route: Ingestion

Method: OECD Test Guideline 451

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans.

Species: Rat

Application Route: inhalation Result: negative

Reproductive toxicity May damage the unborn child



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

< N-Methyl-2-pyrrolidone>

Effects on fertility: Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

Effects on foetal development

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: positive

Reproductive toxicity -

Assessment

Clear evidence of adverse effects on development, based on animal

experiments.

STOT - single exposure: Not classified based on available information.

Components:

< N-Methyl-2-pyrrolidone>

Assessment: May cause respiratory irritation.

STOT - repeated exposure: Not classified based on available information.

< N-Methyl-2-pyrrolidone>

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of

1 mg/l/6h/d or less.

Repeated dose toxicity

Components:

<2-Butoxyethyl acetate>

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

< N-Methyl-2-pyrrolidone>

Species: Rat NOAEL: 0.5 mg/l



Application Route: inhalation (vapour)

Exposure time: 90d

Method: OECD Test Guideline 408

Species: Rat

NOAEL: 169 - 217 mg/kg

Application Route: Ingestion Exposure time: 90d

Method: OECD Test Guideline 408

Species: Rabbit NOAEL: 826 mg/kg Application Route: Skin contact

20d Exposure time:

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 EC50 (Daphnia magna (Water flea)): 37 mg/l

other aquatic invertebrates: Exposure time: 48 h

EC50 (Pseudokirchneriella subcapitata (green algae)): 1,570 Toxicity to algae:

mg/l

Exposure time: 72 h Method: ISO 8692 IC50: 2,800 mg/l

Exposure time: 16 h Toxicity to daphnia and EC10: 30.4 mg/l

other aquatic invertebrates Exposure time: 7 d

(Chronic toxicity): Species: Ceriodaphnia dubia (water flea)

< N-Methyl-2-pyrrolidone>

Toxicity to bacteria:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l Toxicity to fish:

Exposure time: 96 h

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Toxicity to daphnia and

other aquatic invertebrates: Exposure time: 24 h Method: DIN 38412

Toxicity to algae: EC50 (Desmodesmus subspicatus (Scenedesmus

subspica-tus)): 600.5 mg/l

Exposure time: 72 h

Toxicity to daphnia and NOEC: 12.5 mg/l other aquatic invertebrates Exposure time: 21 d

Species: Daphnia magna (Water flea) (Chronic toxicity) Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

<2-Butoxyethyl acetate>



Biodegradability: Result: Readily biodegradable.

Biodegradation: 88 % Exposure time: 28 d

< N-Methyl-2-pyrrolidone>

Biodegradability: Result: Readily biodegradable

Biodegradation: 73 % Exposure time: 28 d

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Components:

<2-Butoxyethyl acetate>

Partition coefficient:

n-octanol/water:

log Pow: 1.51

< N-Methyl-2-pyrrolidone>

Partition coefficient:

log Pow: -0.46

n-octanol/water:

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.4 Mobility in soil

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 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) .:

N-Methyl-2-pyrrolidone

Regulation (EC) No 1005/2009 on substances that deplete the

ozone layer:

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards

involving dangerous substances.

Not applicable

Other regulations: Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Dir 92/85/EEC on the safety and health at work of

pregnant workers.

The components of this product are reported in the following

inventories:

AICS:All ingredients listed or

exempt.

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.

R36/37/38:Irritating to eyes, respiratory system and skin.

R61:May cause harm to the unborn child.

Full text of H-Statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315:Causes skin irritation.

H319: Causes serious eye irritation.

H332:Harmful if inhaled.

H335:May cause respiratory irritation.

H360D:May damage the unborn child.

Full text of other abbreviations

Acute Tox.: Acute toxicity. Eye Irrit.: Eye irritation

Repr.: Reproductive toxicity

Skin Irrit.: Skin irritation

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

2009/161/EU: Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third

list of indicative occupational exposure limit values in implementation



of Council Directive 98/24/EC and amending Commission Directive

2000/39/EC

GB EH40: UK. EH40 WEL - Workplace Exposure Limits.

2000/39/EC / TWA: Limit Value - eight hours. 2000/39/EC / STEL: Short term exposure limit. 2009/161/EU / TWA: Limit Value - eight hours 2009/161/EU / 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.