

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : ARR JET NOVA 250R 10L INK TANKS MAG

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Inkjet Ink

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet****Supplier of the SDS**

Katun Corporation  
7760 France Avenue South., Suite 340  
Minneapolis, MN 55435  
T 952-941-9505  
www.katun.com

**1.4. Emergency telephone number****Emergency number**

For Hazardous Materials Incidents (spill, leak, fire, exposure, or accident) call: CHEMTREC: 1-800-424-9300

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

**2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

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### 3.2. Mixtures

| Name                  | Product identifier                                                       | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                     |
|-----------------------|--------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------|
| Water                 | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                                | 75-80 | Not classified                                                                                                      |
| Triethylene glycol    | (CAS-No.) 112-27-6<br>(EC-No.) 203-953-2                                 | 8     | Not classified                                                                                                      |
| Glycerol              | (CAS-No.) 56-81-5<br>(EC-No.) 200-289-5                                  | 4     | Not classified                                                                                                      |
| Butyldiglycol         | (CAS-No.) 112-34-5<br>(EC-No.) 203-961-6<br>(EC Index-No.) 603-096-00-8  | 1     | Eye Irrit. 2, H319                                                                                                  |
| 1,2-benzisothiazolone | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9<br>(EC Index-No.) 613-088-00-6 | 0.02  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 |

#### Specific concentration limits:

| Name                  | Product identifier                                                       | Specific concentration limits  |
|-----------------------|--------------------------------------------------------------------------|--------------------------------|
| 1,2-benzisothiazolone | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9<br>(EC Index-No.) 613-088-00-6 | (C >= 0.05) Skin Sens. 1, H317 |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation

: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact

: Gently wash with plenty of soap and water.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

: None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: No specific fire or explosion hazard.

Explosion hazard

: Product is not explosive.

Reactivity in case of fire

: No dangerous reactions known.

#### 5.3. Advice for firefighters

Firefighting instructions

: Exercise caution when fighting any chemical fire. Use extinguishing media appropriate for surrounding fire.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Fire-resistant protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Take up small spills with dry chemical absorbent.

##### 6.1.2. For emergency responders

Emergency procedures : Take up small spills with dry chemical absorbent.

#### 6.2. Environmental precautions

Do not discharge into drains or the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

#### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment. Section 13: disposal information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.

Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible products : None known.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Triethylene glycol (112-27-6) |                                                    |                                                 |
|-------------------------------|----------------------------------------------------|-------------------------------------------------|
| Germany                       | TRGS 900 Local name                                | 2,2'-(Ethylendioxy)diethanol (Triethylenglykol) |
| Germany                       | TRGS 900 Occupational exposure limit value (mg/m³) | 1000 mg/m³                                      |
| Germany                       | TRGS 900 Limitation of exposure peaks (mg/m³)      | 2000 mg/m³                                      |
| Germany                       | TRGS 900 Limitation of exposure peaks              | 2(II)                                           |
| Germany                       | TRGS 900 Remark                                    | (gemessen als einatembare Aerosolanteil)        |
| Germany                       | TRGS 900 Regulatory reference                      | TRGS900                                         |
| Switzerland                   | VME (mg/m³)                                        | 1000 mg/m³                                      |
| Switzerland                   | KZGW (mg/m³)                                       | 2000 mg/m³                                      |
| Switzerland                   | Remark (CH)                                        | (einatembare Staub)                             |
| Butyldiglycol (112-34-5)      |                                                    |                                                 |
| EU                            | Local name                                         | 2-(2-Butoxyethoxy)ethanol                       |
| EU                            | IOELV TWA (mg/m³)                                  | 67.5 mg/m³                                      |
| EU                            | IOELV TWA (ppm)                                    | 10 ppm                                          |
| EU                            | IOELV STEL (mg/m³)                                 | 101.2 mg/m³                                     |
| EU                            | IOELV STEL (ppm)                                   | 15 ppm                                          |
| Austria                       | MAK (mg/m³)                                        | 67.5 mg/m³                                      |
| Austria                       | MAK (ppm)                                          | 10 ppm                                          |
| Austria                       | MAK Short time value (mg/m³)                       | 101.2 mg/m³ max. 4x15 min./Schicht              |
| Austria                       | MAK Short time value (ppm)                         | 15 ppm max. 4x15 min./Schicht                   |

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| Butyldiglycol (112-34-5) |                                                    |                                             |
|--------------------------|----------------------------------------------------|---------------------------------------------|
| Belgium                  | Limit value (mg/m³)                                | 67.5 mg/m³                                  |
| Belgium                  | Limit value (ppm)                                  | 10 ppm                                      |
| Belgium                  | Short time value (mg/m³)                           | 101.2 mg/m³                                 |
| Belgium                  | Short time value (ppm)                             | 15 ppm                                      |
| Czech Republic           | Local name                                         | 2-(2-Buthoxyethoxy)-ethanol                 |
| Czech Republic           | Expoziční limity (PEL) (mg/m³)                     | 70 mg/m³                                    |
| Czech Republic           | Expoziční limity (PEL) (ppm)                       | 10.57 ppm                                   |
| Czech Republic           | Expoziční limity (NPK-P) (mg/m³)                   | 100 mg/m³                                   |
| Czech Republic           | Expoziční limity (NPK-P) (ppm)                     | 15.1 ppm                                    |
| Czech Republic           | Remark (CZ)                                        | I                                           |
| Denmark                  | Local name                                         | Butyldiglycol                               |
| Denmark                  | Grænseværdie (langvarig) (mg/m³)                   | 67.5 mg/m³                                  |
| Denmark                  | Grænseværdie (langvarig) (ppm)                     | 10 ppm                                      |
| Finland                  | Local name                                         | 2-(2-Butoksietoksi)etanoli                  |
| Finland                  | HTP-arvo (8h) (mg/m³)                              | 68 mg/m³                                    |
| Finland                  | HTP-arvo (8h) (ppm)                                | 10 ppm                                      |
| France                   | Local name                                         | 2-(2-butoxyéthoxy)éthanol                   |
| France                   | VME (mg/m³)                                        | 67.5 mg/m³                                  |
| France                   | VME (ppm)                                          | 10 ppm                                      |
| France                   | VLE (mg/m³)                                        | 101.2 mg/m³                                 |
| France                   | VLE (ppm)                                          | 15 ppm                                      |
| Germany                  | TRGS 900 Local name                                | 2-(2-Butoxyethoxy)ethanol                   |
| Germany                  | TRGS 900 Occupational exposure limit value (mg/m³) | 67 mg/m³                                    |
| Germany                  | TRGS 900 Occupational exposure limit value (ppm)   | 10 ppm                                      |
| Hungary                  | Local name                                         | 2-(2-BUTOXIETOXI)ETANOL                     |
| Hungary                  | AK-érték                                           | 675 mg/m³                                   |
| Hungary                  | CK-érték                                           | 101.2 mg/m³                                 |
| Ireland                  | OEL (8 hours ref) (mg/m³)                          | 67.5 mg/m³                                  |
| Ireland                  | OEL (8 hours ref) (ppm)                            | 10 ppm                                      |
| Ireland                  | OEL (15 min ref) (mg/m³)                           | 101.2 mg/m³                                 |
| Ireland                  | OEL (15 min ref) (ppm)                             | 15 ppm                                      |
| Ireland                  | Notes (IE)                                         | IOELV                                       |
| Italy                    | Local name                                         | 2-(2-Butossietossi)etanolo                  |
| Italy                    | OEL TWA (mg/m³)                                    | 67.5 mg/m³                                  |
| Italy                    | OEL TWA (ppm)                                      | 10 ppm                                      |
| Italy                    | OEL STEL (mg/m³)                                   | 101.2 mg/m³                                 |
| Italy                    | OEL STEL (ppm)                                     | 15 ppm                                      |
| Latvia                   | Local name                                         | 2-(2-Butoksietoksi) etanols(butildiglikols) |
| Latvia                   | OEL TWA (mg/m³)                                    | 67.5 mg/m³                                  |
| Latvia                   | OEL TWA (ppm)                                      | 10 ppm                                      |
| Latvia                   | OEL STEL (mg/m³)                                   | 101.2 mg/m³                                 |
| Latvia                   | OEL STEL (ppm)                                     | 15 ppm                                      |
| Lithuania                | IPRV (mg/m³)                                       | 100 mg/m³                                   |
| Lithuania                | IPRV (ppm)                                         | 15 ppm                                      |
| Lithuania                | TPRV (mg/m³)                                       | 200 mg/m³                                   |

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| Butyldiglycol (112-34-5) |                               |                                                              |
|--------------------------|-------------------------------|--------------------------------------------------------------|
| Lithuania                | TPRV (ppm)                    | 30 ppm                                                       |
| Netherlands              | Local name                    | 2-(2-Butoxyethoxy)ethanol                                    |
| Netherlands              | Grenswaarde TGG 8H (mg/m³)    | 50 mg/m³                                                     |
| Netherlands              | Grenswaarde TGG 15MIN (mg/m³) | 100 mg/m³                                                    |
| Netherlands              | Remark (MAC)                  | H                                                            |
| Poland                   | Local name                    | 2-(2-Butoksyetoksy)etanol                                    |
| Portugal                 | Local name                    | 2-(2-Butoxietoxi) etanol (éter dietilenoglicol monobutílico) |
| Portugal                 | OEL TWA (ppm)                 | 10 ppm FIV (Fração inalável e vapor)                         |
| Slovakia                 | Local name                    | Butyldiglykol 2-(2-butoxyetoxy)etanol                        |
| Slovakia                 | NPHV (priemerná) (mg/m³)      | 67.5 mg/m³                                                   |
| Slovakia                 | NPHV (priemerná) (ppm)        | 10 ppm                                                       |
| Slovakia                 | OEL STEL (mg/m³)              | 101.2 mg/m³                                                  |
| Slovakia                 | OEL STEL (ppm)                | 15 ppm                                                       |
| Slovenia                 | Local name                    | 2-(2-butoksietoksi)etanol (butildietilenglikol)              |
| Slovenia                 | OEL TWA (mg/m³)               | 67.5 mg/m³                                                   |
| Slovenia                 | OEL TWA (ppm)                 | 10 ppm                                                       |
| Slovenia                 | OEL STEL (mg/m³)              | 101.25 mg/m³                                                 |
| Slovenia                 | OEL STEL (ppm)                | 15 ppm                                                       |
| Spain                    | Local name                    | 2-(2-Butoxietoxi) etanol (Dietilenglicol monobutiléter)      |
| Spain                    | VLA-ED (mg/m³)                | 67.5 mg/m³                                                   |
| Spain                    | VLA-ED (ppm)                  | 10 ppm                                                       |
| Spain                    | VLA-EC (mg/m³)                | 101.2 mg/m³                                                  |
| Spain                    | VLA-EC (ppm)                  | 15 ppm                                                       |
| Spain                    | Notes                         | VLI,r                                                        |
| Sweden                   | Local name                    | Dietylenglykolmonobutyleter                                  |
| Sweden                   | nivågränsvärde (NVG) (mg/m³)  | 100 mg/m³                                                    |
| Sweden                   | nivågränsvärde (NVG) (ppm)    | 15 ppm                                                       |
| Sweden                   | kortidsvärde (KTV) (mg/m³)    | 200 mg/m³                                                    |
| Sweden                   | kortidsvärde (KTV) (ppm)      | 30 ppm                                                       |
| United Kingdom           | WEL TWA (mg/m³)               | 67.5 mg/m³                                                   |
| United Kingdom           | WEL TWA (ppm)                 | 10 ppm                                                       |
| United Kingdom           | WEL STEL (mg/m³)              | 101.2 mg/m³                                                  |
| United Kingdom           | WEL STEL (ppm)                | 15 ppm                                                       |
| Norway                   | Local name                    | 2-2(butoksyetoksy)etanol                                     |
| Norway                   | Grenseverdier (AN) (mg/m³)    | 68 mg/m³                                                     |
| Norway                   | Grenseverdier (AN) (ppm)      | 10 ppm                                                       |
| Switzerland              | VME (mg/m³)                   | 67 mg/m³                                                     |
| Switzerland              | MAK (ppm)                     | 10 ppm                                                       |
| Switzerland              | KZGW (mg/m³)                  | 101.2 mg/m³ max. 4x15 min./turno                             |
| Switzerland              | KZGW (ppm)                    | 15 ppm max. 4x15 min./turno                                  |
| Glycerol (56-81-5)       |                               |                                                              |
| Belgium                  | Limit value (mg/m³)           | 10 mg/m³                                                     |
| Belgium                  | Remark (BE)                   | (brouillard)                                                 |
| Czech Republic           | Local name                    | Glycerol, mlha                                               |

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| Glycerol (56-81-5) |                                  |                                                                                 |
|--------------------|----------------------------------|---------------------------------------------------------------------------------|
| Czech Republic     | Expoziční limity (PEL) (mg/m³)   | 10 mg/m³                                                                        |
| Czech Republic     | Expoziční limity (PEL) (ppm)     | 2.44 ppm                                                                        |
| Czech Republic     | Expoziční limity (NPK-P) (mg/m³) | 15 mg/m³                                                                        |
| Czech Republic     | Expoziční limity (NPK-P) (ppm)   | 3.66 ppm                                                                        |
| Czech Republic     | Regulatory reference             | Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.)    |
| Finland            | Local name                       | Glyseroli                                                                       |
| Finland            | HTP-arvo (8h) (mg/m³)            | 20 mg/m³                                                                        |
| Finland            | Regulatory reference             | HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)                       |
| Ireland            | OEL (8 hours ref) (mg/m³)        | 10 mg/m³                                                                        |
| Slovakia           | Local name                       | Glycerín                                                                        |
| Slovakia           | NPHV (priemerná) (mg/m³)         | 10 mg/m³                                                                        |
| Slovakia           | Regulatory reference             | Nariadenie vlády č. 355/2006 Z. z. (Zmena: 300/2007 Z.z.; Zmena: 471/2011 Z.z.) |
| Spain              | Local name                       | Glicerina                                                                       |
| Spain              | VLA-ED (mg/m³)                   | 10 mg/m³                                                                        |
| Spain              | Regulatory reference             | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT   |
| United Kingdom     | WEL TWA (mg/m³)                  | 10 mg/m³                                                                        |
| Switzerland        | VME (mg/m³)                      | 50 mg/m³                                                                        |
| Switzerland        | KZGW (mg/m³)                     | 100 mg/m³                                                                       |
| Switzerland        | Remark (CH)                      | (inhalable aerosol)                                                             |
| Canada (Quebec)    | VEMP (mg/m³)                     | 10 mg/m³                                                                        |
| USA - ACGIH        | Local name                       | Glycerin mist                                                                   |
| USA - ACGIH        | ACGIH TWA (mg/m³)                | 10 mg/m³                                                                        |
| USA - ACGIH        | Remark (ACGIH)                   | URT irr                                                                         |
| USA - ACGIH        | Regulatory reference             | ACGIH 2018                                                                      |
| USA - OSHA         | OSHA PEL (TWA) (mg/m³)           | 15 mg/m³ (total)<br>5 mg/m³ (respirable fraction)                               |

### 8.2. Exposure controls

Appropriate engineering controls:

Avoid splashing. Avoid creating mist or spray. No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.

|                              |
|------------------------------|
| Hand protection:             |
| nitrile rubber gloves. EN374 |
| Eye protection:              |
| None under normal use        |
| Respiratory protection:      |
| None under normal use        |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |                       |
|----------------|-----------------------|
| Physical state | : Liquid              |
| Appearance     | : Semi-opaque Liquid. |
| Colour         | : Magenta.            |
| Odour          | : odourless.          |

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|                                            |                     |
|--------------------------------------------|---------------------|
| Odour threshold                            | : No data available |
| pH                                         | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : > 1               |
| Relative density                           | : No data available |
| Solubility                                 | : Soluble in water. |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Triethylene glycol (112-27-6) |              |
|-------------------------------|--------------|
| LD50 oral rat                 | > 2000 mg/kg |
| LD50 oral                     | > 16 ml/kg   |
| LD50 dermal rabbit            | non-toxic    |
| LC50 inhalation rat (mg/l)    | 5.14 mg/kg   |
| Butyldiglycol (112-34-5)      |              |
| LD50 oral rat                 | 4500 mg/kg   |
| LD50 dermal rabbit            | 2764 mg/kg   |

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|                                           |                         |
|-------------------------------------------|-------------------------|
| Glycerol (56-81-5)                        |                         |
| LD50 oral rat                             | 5570 mg/kg              |
| Water (7732-18-5)                         |                         |
| LD50 oral rat                             | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit                        | > 5000 mg/kg            |
| LC50 inhalation rat (mg/l)                | > 6 mg/l/4h             |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 6 mg/l/4h             |

|                                   |                  |
|-----------------------------------|------------------|
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Ecology - general        | : Avoid undiluted product to come into sewer or superficial water. |
| Acute aquatic toxicity   | : Not classified                                                   |
| Chronic aquatic toxicity | : Not classified                                                   |

|                               |              |
|-------------------------------|--------------|
| Triethylene glycol (112-27-6) |              |
| LC50 fish 1                   | > 10000 mg/l |
| EC50 Daphnia 1                | > 10000 mg/l |

|                          |                                           |
|--------------------------|-------------------------------------------|
| Butyldiglycol (112-34-5) |                                           |
| LC50 fish 1              | 1300 mg/l 96 h <i>Lepomis macrochirus</i> |
| EC50 Daphnia 1           | > 100 mg/l 48 h                           |

|                    |              |
|--------------------|--------------|
| Glycerol (56-81-5) |              |
| LC50 fish 1        | 68 - 72 mg/l |

#### 12.2. Persistence and degradability

|                               |                  |
|-------------------------------|------------------|
|                               |                  |
| Persistence and degradability | Not established. |

|                               |                        |
|-------------------------------|------------------------|
| Triethylene glycol (112-27-6) |                        |
| Persistence and degradability | Readily biodegradable. |

|                               |                        |
|-------------------------------|------------------------|
| Glycerol (56-81-5)            |                        |
| Persistence and degradability | Readily biodegradable. |

#### 12.3. Bioaccumulative potential

|                               |    |
|-------------------------------|----|
| Triethylene glycol (112-27-6) |    |
| BCF fish 1                    | <= |

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|         |               |
|---------|---------------|
| Log Pow | -1.75 @ 25 °C |
|---------|---------------|

### 12.4. Mobility in soil

|                |                                      |
|----------------|--------------------------------------|
| Ecology - soil | No additional information available. |
|----------------|--------------------------------------|

### 12.5. Results of PBT and vPvB assessment

|                                                                                        |                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |                                                                                                                                                                                 |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |                                                                                                                                                                                 |
| <b>Component</b>                                                                       |                                                                                                                                                                                 |
| Glycerol (56-81-5)                                                                     | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Other adverse effects : None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not dispose in household garbage. Dispose in a safe manner in accordance with local/national regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : Not regulated.

UN-No. (IMDG) : Not regulated.

UN-No. (IATA) : Not regulated.

UN-No. (ADN) : Not regulated.

UN-No. (RID) : Not regulated.

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.

Proper Shipping Name (IMDG) : Not regulated.

Proper Shipping Name (IATA) : Not regulated.

Proper Shipping Name (ADN) : Not regulated.

Proper Shipping Name (RID) : Not regulated.

### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated.

IMDG

Transport hazard class(es) (IMDG) : Not regulated.

IATA

Transport hazard class(es) (IATA) : Not regulated.

ADN

Transport hazard class(es) (ADN) : Not regulated.

RID

Transport hazard class(es) (RID) : Not regulated.

### 14.4. Packing group

Packing group (ADR) : Not regulated.

Packing group (IMDG) : Not regulated.

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Packing group (IATA) : Not regulated.  
Packing group (ADN) : Not regulated.  
Packing group (RID) : Not regulated.

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

Overland transport  
Not regulated.

Transport by sea  
Not regulated.

Air transport  
Not regulated.

Inland waterway transport  
Not regulated.

Rail transport  
Not regulated.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

|                                                                                                                                                                                                                                                                                                                        |                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:                                                                                                                                                                                                           |                                                                                          |
| 55. 2-(2-butoxyethoxy)ethanol (DEGBE)                                                                                                                                                                                                                                                                                  | Butyldiglycol                                                                            |
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008                                                                       | Butyldiglycol                                                                            |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Butyldiglycol - Reaction product of 1-octanol with epichlorohydrin and 2-mercaptoethanol |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

# Safety Data Sheet

## Katun PN 58713

|                                                                                 |                                                                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : None of the components are listed                                                                    |
| Denmark                                                                         |                                                                                                        |
| Classification remarks                                                          | : Emergency management guidelines for the storage of flammable liquids must be followed                |
| Danish National Regulations                                                     | : Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

|                                                                                             |
|---------------------------------------------------------------------------------------------|
| Abbreviations and acronyms:                                                                 |
| ACGIH (American Conference of Government Industrial Hygienists)                             |
| ATE: Acute Toxicity Estimate                                                                |
| CAS (Chemical Abstracts Service) number                                                     |
| CLP: Classification, Labelling, Packaging.                                                  |
| EC50: Environmental Concentration associated with a response by 50% of the test population. |
| GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).              |
| LD50: Lethal Dose for 50% of the test population                                            |
| TWA: Time Weighted Average                                                                  |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data sources | : ACGIH (American Conference of Government Industrial Hygienists).<br>European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</a> .<br>Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.<br>National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.<br>Manufacturer Information.<br>US National Library of Medicine National Institutes of Health Haz-Map. Accessed at <a href="http://hazmap.nlm.nih.gov">http://hazmap.nlm.nih.gov</a> . |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                     |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| Full text of H- and EUH-statements: |                                                                              |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                |
| Ox. Sol. 3                          | Oxidising Solids, Category 3                                                 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                        |
| H272                                | May intensify fire; oxidiser.                                                |
| H315                                | Causes skin irritation.                                                      |
| H319                                | Causes serious eye irritation.                                               |
| EUH208                              | Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction. |
| EUH210                              | Safety data sheet available on request.                                      |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*