

Revision nr. 3

Dated 24/07/2020

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Replaced revision:2 (Dated: 24/07/2020)

# **KRAFT METAL 3IN1 HAMMERED**

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CK322310015,CK322310400,CK322310402,CK322310404,CK322310406,CK322310408, Code:

CK322310410,CK322310412,CK322310414,CK322310416,CK322310418

Product name **KRAFT METAL 3IN1 HAMMERED (11 SHADES)** 

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

Intended use Hammer effect anticorrosive paint for metal

1.3. Details of the supplier of the safety data sheet

**DRUCKFARBEN HELLAS SA** Name

Full address Megaridos Ave District and Country

193 00 Aspropyrgos (Attiki)

Greece

Tel. +30 210 5519500

Fax +30 210 5519501

e-mail address of the competent person

responsible for the Safety Data Sheet psafety@druckfarben.gr

1.4. Emergency telephone number

For urgent inquiries refer to +30 210 7793777

# SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2 H225 Highly flammable liquid and vapour.

Acute toxicity, category 4 Harmful if inhaled. H332

Specific target organ toxicity - repeated exposure, category 2 May cause damage to organs through prolonged or repeated H373

exposure.

Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Specific target organ toxicity - single exposure, category 3 May cause respiratory irritation. H335

Hazardous to the aquatic environment, chronic toxicity, H412 Harmful to aquatic life with long lasting effects.

category 3

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



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Signal words: Danger

#### Hazard statements:

**H225** Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

**H335** May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains:, oxybis(methyl-2,1-ethanediyl) diacrylate, Phthalic anhydride, ethyl methyl ketone oxime

May produce an allergic reaction.

#### Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

P370+P378 In case of fire: use CO<sub>2</sub>, foam or dry powder for extinction.

P501 Dispose of contents and container to an approved waste disposal plant or recycled in accordance with local / national /

international regulations.

P102 Keep out of reach of children.

P312 Call a POISON CENTER / doctor if you feel unwell.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

Contains: xylene (mixture of isomers)

Styrene

ethylbenzene

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

#### Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

xylene (mixture of isomers)

CAS 1330-20-7 30 < x < 50 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,

Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

Reg. no. 01-2119488216-32



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ethylbenzene

CAS 100-41-4

5 < x < 9

Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

EC 202-849-4

INDEX 601-023-00-4 Reg. no. 01-2119489370

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS 64742-48-9

1 < x < 5

Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066,

Classification note according to Annex VI to the CLP Regulation: P

EC 919-857-5

INDEX -

Reg. no. 01-2119463258-33-0000

Heavy aromatic solvent naphtha

(petroleum) CAS 64742-94-5

1 < x < 2,5

Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066

EC 265-198-5

INDEX 649-424-00-3

Styrene

CAS 100-42-5

1 < x < 2.5

Flam. Liq. 3 H226, Repr. 2 H361, Acute Tox. 4 H332, STOT RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic

Chronic 3 H412, Classification note according to Annex VI to the CLP

Regulation: D

EC 202-851-5

INDEX 601-026-00-0

Reg. no. 01-2119457861-32

1-methoxy-2-propanol

CAS 107-98-2 0,5 <

0.5 < x < 1

Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

INDEX 603-064-00-3

Reg. no. 01-2119457435-35-0000

ethyl methyl ketone oxime

CAS 96-29-7

0 < x < 0.5

Carc. 2 H351, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Sens. 1 H317

EC 202-496-6

INDEX 616-014-00-0

Reg. no. 01-2119539477-28

Phthalic anhydride

CAS 85-44-9

0 < x < 0.5

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335,

Resp. Sens. 1 H334, Skin Sens. 1 H317

EC 201-607-5

INDEX 607-009-00-4

Reg. no. 01-2119457017-41



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oxybis(methyl-2,1-ethanediyl) diacrylate

CAS 57472-68-1 0 < x < 0,5 Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 260-754-3

INDEX -

Reg. no. 01-2119484629-21

2-butoxyethanol

CAS 111-76-2 0 < x < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

Reg. no. 01-2119475108-36

acetone

CAS 67-64-1 0 < x < 0,5 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 200-662-2

INDEX 606-001-00-8

Reg. no. 01-2119471330-49-0016

2-methoxy-1-methylethyl acetate

CAS 108-65-6 0 < x < 0,5 Flam. Liq. 3 H226

EC 203-603-9

INDEX 607-195-00-7

Naphthalene

CAS 91-20-3 0 < x < 0.25 Carc. 2 H351, Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic

Chronic 1 H410 M=1

EC 202-049-5

INDEX 601-052-00-2

cobalt bis (2-ethylhexanoate)

CAS 136-52-7 0 < x < 0,5 Repr. 2 H361f, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400

M=1, Aquatic Chronic 3 H412, EUH208

EC 205-250-6

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.



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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

# 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

# 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections



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Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available

# SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

## Regulatory References:

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| BGR | България       | МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА<br>ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г) |
|-----|----------------|---|
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Third edition,published 2018)  |
| GRC | Ελλάδα         | ЕФНМЕРІ   |
|     |                | Α ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018   |
| ITA | Italia         | DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017   |
| ROU | România        | HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerin                      |
|     |                | elor minime de securitate   |
|     |                | i sănătate în muncă pentru asigurarea protec  |
|     |                | iei lucrătorilor împotriva riscurilor legate de prezen  |
|     |                | a agen  |
|     |                | ilor chimici  |

OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019** 

| Туре      | Country | TWA/8h |     | STEL/15min |     | Remarks /<br>Observations |  |
|-----------|---------|--------|-----|------------|-----|---------------------------|--|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                           |  |
| WEL       | GBR     |        | 50  |            | 100 |                           |  |
| ΓLV       | GRC     | 435    | 100 | 650        | 150 |                           |  |
| OEL       | EU      | 221    | 50  | 442        | 100 |                           |  |
| TLV-ACGIH |         |        | 100 |            | 150 |                           |  |



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| Normal value in marine water           | 0,327 | mg/l  | _ |
|--|-------|-------|---|
| Normal value for fresh water sediment  | 12,46 | mg/kg |   |
| Normal value for marine water sediment | 12,46 | mg/kg |   |

| Tromai raido foi mamio mator | 004                |                |               | , .0        | 5           | ,9        |               |             |
|------------------------------|--------------------|----------------|---------------|-------------|-------------|-----------|---------------|-------------|
| Health - Derived no-effect   | t level - DNEL / D | OMEL           |               |             |             |           |               |             |
|                              | Effects on         |                |               |             | Effects on  |           |               |             |
|                              | consumers          |                |               |             | workers     |           |               |             |
| Route of exposure            | Acute local        | Acute systemic | Chronic local | Chronic     | Acute local | Acute     | Chronic local | Chronic     |
|                              |                    |                |               | systemic    |             | systemic  |               | systemic    |
| Oral                         |                    |                | VND           | 1,6 mg/kg/d |             |           |               |             |
| Inhalation                   | 174 mg/m3          | 174 mg/m3      | VND           | 14,8 mg/m3  | 289 mg/m3   | 289 mg/m3 | VND           | 77 mg/m3    |
| Skin                         |                    |                | VND           | 108 mg/kg/d |             |           | VND           | 180 mg/kg/d |

| ethylbenzene<br>Threshold Limit Valu | ie      |        |     |            |     |                           |  |
|--------------------------------------|---------|--------|-----|------------|-----|---------------------------|--|
| Туре                                 | Country | TWA/8h |     | STEL/15min |     | Remarks /<br>Observations |  |
|                                      |         | mg/m3  | ppm | mg/m3      | ppm |                           |  |
| WEL                                  | GBR     |        | 100 |            | 125 |                           |  |
| TLV                                  | GRC     | 435    | 100 | 545        | 125 |                           |  |
| OEL                                  | EU      | 442    | 100 | 884        | 200 |                           |  |
| TLV-ACGIH                            |         |        | 100 |            | 125 |                           |  |

| Hydrocarbons, 69-611, 11-  | aikalies, isoair | lanes, cyclics, <2 | 70 di Ullialics |            |             |         |               |         |  |
|----------------------------|------------------|--------------------|-----------------|------------|-------------|---------|---------------|---------|--|
| Threshold Limit Value      |                  |                    |                 |            |             |         |               |         |  |
| Туре                       | Country TWA/8h   |                    |                 | STEL/15min |             |         | Remarks /     |         |  |
|                            |                  |                    |                 |            |             | Observa | ations        |         |  |
|                            |                  | mg/m3              | ppm             | mg/m3      | ppm         |         |               |         |  |
|                            | 000              | 1000               |                 |            |             |         |               |         |  |
| TLV                        | GRC              | 1200               |                 |            |             |         |               |         |  |
| Health - Derived no-effect | level - DNEL /   | DMEL               |                 |            |             |         |               |         |  |
|                            | Effects on       |                    |                 |            | Effects on  |         |               |         |  |
|                            | consumers        |                    |                 |            | workers     |         |               |         |  |
| Route of exposure          | Acute local      | Acute systemic     | Chronic local   | Chronic    | Acute local | Acute   | Chronic local | Chronic |  |

| ·          | •   | systemic      | systemic   | systemic    |
|------------|-----|---------------|------------|-------------|
| Oral       | VND | 300 mg/kg/d   |            |             |
| Inhalation | VND | 900 mg/m3 VND | 1500 mg/m3 |             |
| Skin       | VND | 300 mg/kg/d   | VND        | 300 mg/kg/d |

| Styrene              |         |        |        |       |     |                           |  |
|----------------------|---------|--------|--------|-------|-----|---------------------------|--|
| Threshold Limit Valu | ue      |        |        |       |     |                           |  |
| Туре                 | Country | TWA/8h | TWA/8h |       | 1   | Remarks /<br>Observations |  |
|                      |         | mg/m3  | ppm    | mg/m3 | ppm |                           |  |
| TLV                  | BGR     | 85     |        | 215   |     |                           |  |
| WEL                  | GBR     | 430    | 100    | 1080  | 250 |                           |  |
| TLV                  | GRC     | 425    | 100    | 1050  | 250 |                           |  |
| TLV-ACGIH            |         | 85     | 20     | 170   | 40  |                           |  |

| 1-methoxy-2-propanol Threshold Limit Value |         |        |     |            |     |                           |  |
|--|---------|--------|-----|------------|-----|---------------------------|--|
| Туре                                       | Country | TWA/8h |     | STEL/15min |     | Remarks /<br>Observations |  |
|  |         | mg/m3  | ppm | mg/m3      | ppm |                           |  |
| WEL  | GBR     |        | 100 |            | 150 |                           |  |



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|--|---|-------------------------------|----------------------|-----------------------------------|--------------------|------------------------------------|-------------------------|------------------|
| TLV  | GRC   | 360                           | 100                  | 1080                              | 300                |                                    |                         |                  |
| OEL  | EU  | 375                           | 100                  | 568                               | 150                |                                    |                         |                  |
| TLV-ACGIH  |   |                               | 100                  |                                   | 150                |                                    |                         |                  |
| Predicted no-effect concentr   | ration - PNEC                                     |                               |                      |                                   |                    |                                    |                         |                  |
| Normal value in fresh water  |   |                               |                      | 10                                | mg,                | /I                                 |                         |                  |
| Normal value in marine water   | <br>er  |                               |                      | 1                                 | mg                 | /I                                 |                         |                  |
| Normal value for fresh water   | r sediment  |                               |                      | 41,6                              | mg,                | /kg                                |                         |                  |
| Normal value for marine wat  | ter sediment                                      |                               |                      | 4,17                              | mg,                | /kg                                |                         |                  |
| Normal value for water, inter  | rmittent release                                  |                               |                      | 100                               | mg                 | /I                                 |                         |                  |
| Health - Derived no-effe   | Effects on  | MEL                           |                      |                                   | Effects on workers |                                    |                         |                  |
| Route of exposure  | consumers<br>Acute local                          | Acute systemic                | Chronic local        | Chronic systemic                  | Acute local        | Acute systemic                     | Chronic local           | Chronic systemic |
| Oral   |   |                               | VND                  | 3,3 mg/kg                         |                    | 0,0.00                             |                         | 0,01011110       |
| Inhalation   |   |                               | VND                  | 43,9 mg/m3                        | 553,5 mg/m3        | VND                                | VND                     | 369 mg/m3        |
| Skin   |   |                               | VND                  | 18,1 mg/kg                        |                    |                                    | VND                     | 50,6 mg/kg       |
| ethyl methyl ketone oxi  | ime   |                               |                      |                                   |                    |                                    |                         |                  |
| Threshold Limit Value Type   | Country   | TWA/8h                        |                      | STEL/15min                        |                    | Remark                             | s /                     |                  |
| 1,750  | Country   |                               |                      |                                   |                    | Observa                            |                         |                  |
| OF   | FIL   | mg/m3                         | ppm                  | mg/m3                             | ppm                |                                    |                         |                  |
| OEL  | EU  | 1                             | 0,28                 |                                   |                    |                                    |                         |                  |
| Predicted no-effect concentr   |   |                               |                      |                                   |                    |                                    |                         |                  |
| Normal value in fresh water  |   |                               |                      | 0,256                             | mg,                |                                    |                         |                  |
| Normal value of STP microo   | _   |                               |                      | 177                               | mg,                | /1                                 |                         |                  |
| Health - Derived no-effe   | ect level - DNEL / D<br>Effects on<br>consumers   | MEL                           |                      |                                   | Effects on workers |                                    |                         |                  |
| Route of exposure  | Acute local                                       | Acute systemic                | Chronic local        | Chronic<br>systemic               | Acute local        | Acute systemic                     | Chronic local           | Chronic systemic |
| Inhalation   |   |                               | 2 mg/m3              | 2,7 mg/m3                         |                    | Зузіснію                           | 3,33 mg/m3              | 9 mg/m3          |
|  |   |                               |                      |                                   |                    |                                    |                         |                  |
| Skin   | VND   | 1,5 mg/kg/d                   | VND                  | 0,78 mg/kg/d                      | VND                | 2,5 mg/kg/d                        | VND                     | 1,3 mg/kg/c      |
| 2-butoxyethanol  | VND   | 1,5 mg/kg/d                   | VND                  | 0,78 mg/kg/d                      | VND                | 2,5 mg/kg/d                        | VND                     | 1,3 mg/kg/c      |
| 2-butoxyethanol  | Country   | 1,5 mg/kg/d TWA/8h            | VND                  | 0,78 mg/kg/d<br>STEL/15min        | VND                | Remark                             | s/                      | 1,3 mg/kg/c      |
| 2-butoxyethanol Threshold Limit Value                                      |   |                               | Ppm                  |                                   | VND                |                                    | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value                                      |   | TWA/8h                        |                      | STEL/15min                        |                    | Remark                             | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value Type TLV                             | Country   | TWA/8h<br>mg/m3               |                      | STEL/15min<br>mg/m3               |                    | Remark<br>Observa                  | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value Type TLV                             | Country   | TWA/8h<br>mg/m3               | ppm                  | STEL/15min<br>mg/m3<br>246        | ppm                | Remark<br>Observa<br>SKIN          | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value Type  TLV  WEL                       | Country  BGR GBR                                  | TWA/8h<br>mg/m3<br>98<br>123  | ppm 25               | STEL/15min<br>mg/m3<br>246        | ppm                | Remark<br>Observa<br>SKIN          | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value Type  TLV  WEL TLV                   | Country  BGR  GBR  GRC  ITA                       | TWA/8h mg/m3 98 123 120       | ppm 25 25            | STEL/15min<br>mg/m3<br>246<br>246 | ppm 50             | Remark:<br>Observa<br>SKIN<br>SKIN | s/                      | 1,3 mg/kg/c      |
| 2-butoxyethanol Threshold Limit Value Type  TLV  WEL  TLV  VLEP  OEL       | Country  BGR  GBR  GRC                            | TWA/8h mg/m3 98 123 120 98 98 | 25<br>25<br>20<br>20 | STEL/15min<br>mg/m3<br>246<br>246 | 50 50              | Remark:<br>Observa<br>SKIN<br>SKIN | s/                      | 1,3 mg/kg/d      |
| 2-butoxyethanol Threshold Limit Value Type  TLV  WEL  TLV  VLEP            | Country  BGR GBR GRC ITA EU  ect level - DNEL / D | TWA/8h mg/m3 98 123 120 98 98 | 25<br>25<br>20       | STEL/15min<br>mg/m3<br>246<br>246 | ppm 50 50 50       | Remark:<br>Observa<br>SKIN<br>SKIN | s/                      | 1,3 mg/kg/d      |
| Z-butoxyethanol Threshold Limit Value Type  TLV WEL TLV VLEP OEL TLV-ACGIH | Country  BGR  GBR  GRC  ITA  EU                   | TWA/8h mg/m3 98 123 120 98 98 | 25<br>25<br>20<br>20 | STEL/15min<br>mg/m3<br>246<br>246 | 50 50              | Remark:<br>Observa<br>SKIN<br>SKIN | s/                      | Chronic systemic |



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# **KRAFT METAL 3IN1 HAMMERED**

| Inhalation | 123 mg/m3 | VND | VND | 49 mg/m3 | VND | 20 ppm   |
|------------|-----------|-----|-----|----------|-----|----------|
| Skin       |           |     | VND | 38 mg/kg | VND | 75 mg/kg |

| Туре                              | Country              | TWA/8h         |               | STEL/15min          |                    | Remarks /<br>Observation | ns            |                  |
|-----------------------------------|----------------------|----------------|---------------|---------------------|--------------------|--------------------------|---------------|------------------|
|                                   |                      | mg/m3          | ppm           | mg/m3               | ppm                |                          |               |                  |
| TLV                               | BGR                  | 600            |               | 1400                |                    |                          |               |                  |
| WEL                               | GBR                  | 1210           | 500           | 3620                | 1500               |                          |               |                  |
| TLV                               | GRC                  | 1780           |               | 3560                |                    |                          |               |                  |
| VLEP                              | ITA                  | 1210           | 500           |                     |                    |                          |               |                  |
| OEL                               | EU                   | 1210           | 500           |                     |                    |                          |               |                  |
| TLV-ACGIH                         |                      | 1187           | 500           | 1781                | 750                |                          |               |                  |
| Predicted no-effect concentration | on - PNEC            |                |               |                     |                    |                          |               |                  |
| Normal value in fresh water       |                      |                |               | 10,6                | mį                 | g/l                      |               |                  |
| Normal value in marine water      |                      |                |               | 1,06                | mç                 | g/l                      |               |                  |
| Normal value of STP microorga     | nisms                |                |               | 29,5                | mį                 | g/l                      |               |                  |
| Health - Derived no-effect        | level - DNEL / [     | MEL            |               |                     |                    |                          |               |                  |
|                                   | Effects on consumers |                |               |                     | Effects on workers |                          |               |                  |
| Route of exposure                 | Acute local          | Acute systemic | Chronic local | Chronic<br>systemic | Acute local        | Acute<br>systemic        | Chronic local | Chronic systemic |
| Oral                              |                      |                | VND           | 62 mg/kg/d          |                    |                          |               |                  |
| Inhalation                        |                      |                | VND           | 200 mg/m3           | VND                | 2420 mg/m3               | VND           | 1210 mg/m3       |
| Skin                              |                      |                | VND           | 62 mg/kg/d          |                    |                          | VND           | 186 mg/kg/c      |

| Туре   | Country           | TWA/8h |       | STEL/15min |      | Remarks /<br>Observations |  |
|--|-------------------|--------|-------|------------|------|---------------------------|--|
|  |                   | mg/m3  | ppm   | mg/m3      | ppm  |                           |  |
| TLV  | BGR               | 275    | 50    | 550        | 100  | SKIN                      |  |
| WEL  | GBR               | 274    | 50    | 548        | 100  | SKIN                      |  |
| TLV  | GRC               | 275    | 50    | 550        | 100  |                           |  |
| VLEP   | ITA               | 275    | 50    | 550        | 100  | SKIN                      |  |
| TLV  | ROU               | 275    | 50    | 550        | 100  | SKIN                      |  |
| OEL  | EU                | 275    | 50    | 550        | 100  | SKIN                      |  |
| Predicted no-effect con                      | centration - PNEC |        |       |            |      |                           |  |
| Normal value in fresh water                  |                   |        | 0,635 | n          | ng/l |                           |  |
| Normal value in marine water                 |                   |        |       | 0,0635     | n    | nI/I                      |  |
| Normal value for fresh water sediment        |                   |        |       | 3,29       | n    | ng/kg                     |  |
| Normal value for marine water sediment       |                   |        |       | 0,329 mg/k |      | ng/kg                     |  |
| Normal value for water, intermittent release |                   |        |       | 6,35       | n    | ng/l                      |  |
| Normal value of STP microorganisms           |                   |        |       | 100        | n    | ng/l                      |  |

# | Effects on consumers | Chronic local | Chronic | Systemic | Syst



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| Oral       | VND | 1,67 mg/kg |                 |       |             |
|------------|-----|------------|-----------------|-------|-------------|
| Inhalation | VND | 33 mg/m3   | 553,5 mg/m3 VNI | D VND | 275 mg/m3   |
| Skin       | VND | 54,8 mg/kg |                 | VND   | 153,5 mg/kg |

| Naphthalene<br>Threshold Limit Value |         |        |     |            |     |                           |
|--------------------------------------|---------|--------|-----|------------|-----|---------------------------|
| Туре                                 | Country | TWA/8h |     | STEL/15min |     | Remarks /<br>Observations |
|                                      |         | mg/m3  | ppm | mg/m3      | ppm |                           |
| TLV                                  | GRC     | 50     |     |            |     |                           |
| OEL                                  | EU      | 50     |     |            |     |                           |

| cobalt bis (2-ethylhexanoate) |         |        |            |       |     |                           |             |  |
|-------------------------------|---------|--------|------------|-------|-----|---------------------------|-------------|--|
| Threshold Limit Val           | lue     |        |            |       |     |                           |             |  |
| Туре                          | Country | TWA/8h | STEL/15min |       |     | Remarks /<br>Observations |             |  |
|                               |         | mg/m3  | ppm        | mg/m3 | ppm |                           |             |  |
| TLV                           | BGR     | 0,005  |            |       |     |                           | като кобалт |  |
| WEL                           | GBR     | 0,1    |            |       |     |                           | As Co       |  |
| TLV-ACGIH                     |         | 0,02   |            |       |     |                           |             |  |

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

# SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

# RESPIRATORY PROTECTION



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If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Not available

Not available

# **SECTION 9. Physical and chemical properties**

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

Appearance liquid

Colour as showed in color folder

Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point Not available > 35 °C Initial boiling point Boiling range Not available Flash point < 23 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Not available Vapour density 0.96-1.0 g/mL Relative density Solubility Not available Partition coefficient: n-octanol/water Not available Not available Auto-ignition temperature Decomposition temperature Not available Viscosity 70KU (±10)

#### 9.2. Other information

Explosive properties
Oxidising properties

Total solids (250°C / 482°F) 55% (±5) VOC (Directive 2010/75/EC) : 45,47 %



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# **KRAFT METAL 3IN1 HAMMERED**

VOC (volatile carbon): 40,94 %

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### Styrene

STYRENE: polymerises readily above 65°C/149°F with risk of fire and explosion; added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25°C/77°F.

#### 1-methoxy-2-propanol

1-METHÓXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

#### 2-butoxyethanol

2-BUTOXYETHANOL: decomposes in the presence of heat.

#### acetone

ACETONE: decomposes under the effect of heat.

# 2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

# 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

# 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

# xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

#### ethylbenzene

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

#### Styrene

STYRENE: can react dangerously with peroxides and strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, diterbutyl peroxide, oxidising agents, oxygen.

1-methoxy-2-propanol



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# **KRAFT METAL 3IN1 HAMMERED**

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

#### 2-butoxyethanol

2-BUTÓXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air.

#### acetone

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

#### 2-methoxy-1-methylethyl acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 1-methoxy-2-propanol

1-METHÓXY-2-PROPANOL: avoid exposure to the air.

#### 2-butoxyethanol

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.

#### acetone

ACETONE: avoid exposure to sources of heat and naked flames.

# 10.5. Incompatible materials

## Styrene

STYRENE: avoid oxidising agents, copper and strong acids; it dissolves various types of plastic materials, but not polychloroprene and polyvinyl alcohol.

#### 1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

#### acetone

ACETONE: acid and oxidising substances.

#### 2-methoxy-1-methylethyl acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### ethylbenzene

ETHYLBENZENE: methane, styrene, hydrogen, ethane.



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# **KRAFT METAL 3IN1 HAMMERED**

2-butoxyethanol

2-BUTÓXYETHANOL: hydrogen.

acetone

ACETONE: ketenes and other irritating compounds.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

# 11.1. Information on toxicological effects

#### xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

#### ethylbenzene

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

#### Styrene

STYRENE: Acute toxicity following inhalation at 1000 ppm involves the central nervous system with headache and dizziness, lack of coordination; irritation of the mucous membranes of the eyes and respiratory tract occurs at 500 ppm concentrations. Chronic exposure produces depression of the Central and peripheral nervous system with loss of memory, headache and somnolence starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis and dermatosis.

# 1-methoxy-2-propanol

1-METHÓXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

#### Metabolism, toxicokinetics, mechanism of action and other information

# 2-methoxy-1-methylethyl acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

# Information on likely routes of exposure

2-methoxy-1-methylethyl acetate

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

# 2-methoxy-1-methylethyl acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

#### Interactive effects



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# **KRAFT METAL 3IN1 HAMMERED**

Information not available ACUTE TOXICITY

LC50 (Inhalation) of the mixture: 17,80 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

2-butoxyethanol LD50 (Oral) 1746 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rabbit

LC50 (Inhalation) > 2 mg/l/4h Rat

ethyl methyl ketone oxime LD50 (Oral) 2100 mg/kg Rat

LD50 (Dermal) 1100 mg/kg Rat

acetone LD50 (Oral) 5800 mg/kg Rat

LD50 (Dermal) 500 mg/kg Rabbit

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) > 20 mg/l/4h Rat

ethylbenzene LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

1-methoxy-2-propanol LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit LC50 (Inhalation) 54,6 mg/l/4h Rat

xylene (mixture of isomers) LD50 (Oral) 3523 mg/kg Rat



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# **KRAFT METAL 3IN1 HAMMERED**

LD50 (Dermal) > 1700 mg/kg Rabbit LC50 (Inhalation) 5000 ppm/4h Rat cobalt bis (2-ethylhexanoate) LD50 (Oral) 3129 mg/kg Rat - Sprague-Dawley

LD50 (Dermal) > 2000 mg/kg Rat - Wistar

2-methoxy-1-methylethyl acetate LD50 (Oral) 8530 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rat

LC50 (Inhalation) > 25,8 mg/l Rat

Styrene LD50 (Oral) 5000 mg/kg Rat

LC50 (Inhalation) 11,8 mg/l/4h Rat

Heavy aromatic solvent naphtha (petroleum) LD50 (Dermal) > 2110 mg/kg Rabbit

LC50 (Inhalation) > 590 mg/m3 Rat

Naphthalene LD50 (Oral) > 5000 mg/kg Rat derive OOSA 401

# SKIN CORROSION / IRRITATION

Causes skin irritation

# SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

# RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.Contains: oxybis(methyl-2,1-ethanediyl) diacrylate Phthalic anhydride ethyl methyl ketone oxime

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

# CARCINOGENICITY

Does not meet the classification criteria for this hazard class



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# **KRAFT METAL 3IN1 HAMMERED**

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

# STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### STOT - REPEATED EXPOSURE

May cause damage to organs

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class Viscosity: 70KU (±10)

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

2-butoxyethanol

 LC50 - for Fish
 1474 mg/l/96h

 EC50 - for Crustacea
 1550 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 1840 mg/l/72h

 Chronic NOEC for Fish
 > 100 mg/l

 Chronic NOEC for Crustacea
 > 100 mg/l

ethyl methyl ketone oxime

 LC50 - for Fish
 843 mg/l/96h

 EC50 - for Crustacea
 750 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 83 mg/l/72h

acetone

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC50 - for Fish > 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms

1-methoxy-2-propanol



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> 6,8 mg/l/96h

LC50 - for Fish

xylene (mixture of isomers)

LC50 - for Fish > 100 mg/l/96h Microorganisms

cobalt bis (2-ethylhexanoate)

LC50 - for Fish 275 mg/l/96h Fundulus heteroclitus

Naphthalene

LC50 - for Fish > 1 mg/l/96h TheoreticalLC10 for Fish > 1 mg/l/96h Theoretical

#### 12.2. Persistence and degradability

2-butoxyethanol

Rapidly degradable

ethyl methyl ketone oxime

Degradability: information not available

acetone

Rapidly degradable

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable

. . .

xylene (mixture of isomers)

Rapidly degradable

cobalt bis (2-ethylhexanoate)

Solubility in water > 10000 mg/l

Rapidly degradable

2-methoxy-1-methylethyl acetate

Solubility in water > 10000 mg/l

Rapidly degradable

Styrene

Solubility in water 320 mg/l

Rapidly degradable

# 12.3. Bioaccumulative potential

ethyl methyl ketone oxime

Partition coefficient: n-octanol/water 0,59 BCF 5

acetone



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# **KRAFT METAL 3IN1 HAMMERED**

Partition coefficient: n-octanol/water

-0,24 3

2-methoxy-1-methylethyl acetate

Partition coefficient: n-octanol/water

1,2

Styrene

**BCF** 

Partition coefficient: n-octanol/water

2,96

BCF

74

12.4. Mobility in soil

Styrene

Partition coefficient: soil/water

2,55

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

# 14.1. UN number

ADR / RID, IMDG, 1263

IATA:

## 14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL

# 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3





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# **KRAFT METAL 3IN1 HAMMERED**

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

Ш

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

# 14.6. Special precautions for user

HIN - Kemler: 33 ADR / RID: Limited Tunnel

Quantities: 5 restriction code: (D/E)

Special Provision: 640D

IMDG: EMS: F-E, <u>S-E</u> Limited

Quantities: 5

Cargo:

Maximum

quantity: 60 L

instructions: 364

Packaging

Maximum

Pass.: Packaging quantity: 5 L instructions:

353

Special Instructions: A3, A72,

A192

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

Information not relevant

# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

IATA:

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)



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None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Carc. 2 Carcinogenicity, category 2
Repr. 2 Reproductive toxicity, category 2

Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.



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H361f Suspected of damaging fertility.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

FUH208 Contains <name of sensitising substance>. May produce an allergic reaction.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament



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- 4. Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 03 / 09.