



## MATERIAL SAFETY DATA SHEET

prepared in accordance with Commission Regulation (EU) 2015/830  
amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 1 z 13

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

Trade name: RevCut 70

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

###### 1.2.1. Relevant identified uses:

water-miscible cutting fluid lubricant

###### 1.2.2. Uses advised against

Other than listed in section 1.2.1.

##### 1.3. Details of the supplier of the safety data sheet:

Producer: Rafineria w Jaśle  
Address: 38-200 Jasło, 3 Maja Street 101, Poland  
Tel. /Fax: (13) 44 66 316/(13) 44 66 315  
E-mail: biuro@rwj.com.pl

##### 1.4. Emergency telephone number:

Producer emergency telephone:  
7:00 – 15:00, (13) 44 66 316  
112 (emergency call), 998 (fire brigade), 999 (medical services).

#### SECTION 2: HAZARDS IDENTIFICATION

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

###### According to the Regulation (WE) no 1272/2008 (as amended)

Skin corrosion/irritation, Hazard Category 2 with assigned phrase stating the type of hazard:  
H315 Causes skin irritation

Serious eye damage/eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard:  
H319 Causes serious eye irritation

Skin sensitisation, Hazard Category 1 with assigned phrase stating the type of hazard:  
H317 May cause an allergic skin reaction

Hazardous to the aquatic environment – Chronic Hazard, Category 3 with assigned phrase stating the type of hazard:

H412 Harmful to aquatic life with long lasting effects

Health hazard: irritating to eyes, may cause sensitization by skin contact for sensible person

Environmental hazards: product classified as hazardous to environment – harmful to aquatic life with long lasting effects



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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 2 z 13

Physical / chemical hazards: no data

Fire hazard: product contains flammable ingredients. Vapours form flammable mixtures with air

### 2.2. Label elements

According to the Regulation (WE) 1272/2008

Pictogram:



**Signal Word:** Warning

**Hazard statements:**

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:**

**General:**

P101 If medical advice is needed, have product container or label at hand

**Prevention:**

P273 Avoid release to the environment

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

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

P337 + P313 If eye irritation persists: Get medical advice/attention

**Storage:**

-

**Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

**Hazardous Ingredients:** tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione, 2,2',2''-(heksahydro-1,3,5-triazine-1,3,5-triyl)trietanol, 3-iodo-2-propynyl butylcarbamate

**2.3. Other hazards:**

The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.



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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 3 z 13

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2 Mixtures

The product is a mixture. Content: hazardous ingredients listed below, additives not classified as hazardous or at concentration below applicable concentrations or specific concentration limits.

The classification of hazardous substances contained in the product is given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (Regulation GHS), including it's amends, the manufacturer and available literature data.

No CAS	No EINECS	Index number	REACH registration number	Chemical name	Quantity	Risk category	H phrases
64742-52-5	265-155-0	649-465-00-7	01-2119467170-45-xxxx	Distillates (petroleum), hydrotreated heavy naphthenic*,**	< 60 % w/w	-	-
10043-35-3	233-139-2	005-007-00-2	01-2119486683-25-xxxx	boric acid	< 5 % w/w	Repr. 1B	H360FD
68920-66-1	500-236-9	not assigned	01-2119489407-26-xxxx	Alcohols, C16-18 and C18-unsatd., ethoxylated	< 5 % w/w	Skin Irrit. 2, Aquatic Chronic 2	H315, 411
5395-50-6	226-408-0	not assigned	no data	tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	< 2 % w/w	Skin Sens. 1	H317
141-43-5	205-483-3	603-030-00-8	01-2119486455-28-xxxx	2-aminoethanol**	≤ 1 % w/w	Acute Tox. 4 (oral), Acute Tox. 4 (inh), Acute Tox. 4 (derm), Skin Corr. 1B	H302, 312, 332, 314
78-96-6	201-162-7	603-082-00-1	01-2119475331-43-xxxx	1-aminopropan-2-ol	≤ 1 % w/w	Skin Corr. 1B	H314
4719-04-4	225-208-0	613-114-00-6	01-2119529226-41-xxxx	2,2',2''-(heksahydro-1,3,5-triazine-1,3,5-triyl)trietanol	< 1 % w/w	Acute Tox. 2 (inh), Acute Tox. 4 (oral), Skin Sens. 1, STOT SE 1	H302, 317, 330, 372
64665-57-2	265-004-9	not assigned	01-2119980062-42-xxxx	sodium 4(or 5)-methyl-1H-benzotriazolide	< 0,2 % w/w	Acute Tox. 4 (oral), Skin Corr. 1A	H302, 314
55406-53-6	259-627-5	616-212-00-7	not required ***	3-iodo-2-propynyl butylcarbamate	< 0,2 % w/w	Acute Tox. 3 (inh), Acute Tox. 4 (oral), STOT RE 1, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, 317, 318, 331, 372, 400, 410

M-factor for environment hazardous substance (CAS no 55406-53-6)



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amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 4 z 13

Acute hazard: M = 10

Chronic hazard: M = 1

\* Substance isn't classified as a carcinogen acc. to producer declaration and note L:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London.

\*\* Substances for which there are Community workplace exposure limits

\*\*\* Active substance used in biocide products

For the wording of the listed risk phrases and hazard statements refer to section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

###### General recommendations

In the event of health problems, immediately contact doctor. Show MSDS of product.

Never give anything by mouth to an unconscious person.

**Contamination of the skin:** Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation or sensitization consult a doctor.

**Contamination of the eye:** Flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation consult an ophthalmologist.

**Inhalation:** If exposure, move victim to fresh air. Keep warm and quiet. Consult with doctor. Conscious person placed in a rest half seated, ensure calm and warm, unconscious person lay in the recovery position. If breathing is difficult, give oxygen, in the absence of breath use artificial respiration. Seek medical advice immediately.

**Ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting. Contact with doctor immediately and show product label.

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

**Acute symptoms** – eye irritation (redness, lachrymation, pain)

**Delayed symptoms** – skin sensitizing for sensible persons

**Effects of exposure** – no data

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

**Note to Physician:** No specific antidote, treat symptomatically.



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amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 5 z 13

#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media:

**Suitable extinguishing agents:** CO<sub>2</sub>, powders and foam, water spray, sand, dolomite, etc.

**Extinguishing media which must not be used for safety reasons:** a strong jet of water – the risk of fire spreading

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

The combustion of the product may produce carbon oxides, other harmful gases. Avoid inhalation of combustion products, may pose a threat to health.

**5.3. Advice for fire-fighters:** strictly apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed or poorly ventilated areas.

**General:** inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

**Additional notes:** vapours of product form flammable mixtures with air. Vapours are heavier than air, accumulate at the surface of the earth and lower parts of the rooms. Tanks and packaging which are not covered by the fire, exposed to fire or high temperature should be cooled by water from a safe distance (risk of explosion), and if possible removed from the hazardous area.

Fire residues and contaminated waters dispose in according to applicable regulations. Do not introduce contaminated waters into drains.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment, especially respiratory protection in case of contact risk with vapour/fumes/aerosols of product. Avoid direct contact with releasing product. Avoid breathing vapours.

Inform about the accident, call the appropriate emergency services (e.g. Fire Brigade, Police). Remove from the hazardous area all persons not taking part in the emergency, order evacuation if necessary. Provide adequate ventilation. Particular danger of slipping on leaked/spilled product.

##### 6.2. Environmental precautions

Do not allow to enter drains, groundwater, soil and open water courses. Spilled product protect against spreading using dams or barriers. In case of water contamination inform local authorities.

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

In case of container leakage, spillage of the product, protect the source of leak, pour the product into an empty container or place damaged container in an emergency one. Limit the spread of spill by the embankment of land, large quantities of liquid pump out. Small amounts of spilled liquid soak up with non-flammable, absorbent material (sand, diatomite, universal binders, etc.) gather in closed container for disposal and utilized. Perform clean-up work with adequate ventilation. Rinse contaminated surface with water and detergent.



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amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 6 z 13

#### 6.4. Reference to other sections

Personal protective equipment – section 8

Waste disposal – section 13

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact with liquid, avoid vapour inhalation. Avoid contact with eyes and skin. Ensure adequate ventilation /exhaust in the workplace, prevent the formation of harmful concentrations of vapour in the air, work in well ventilated areas. Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8.

#### Industrial hygiene

- ensure good ventilation (overall and local exhausted ventilation),
- ensure place for eyes and skin rinsing,
- wash hands with soap and water before eating, smoking and after work,
- use general caution while working with chemical substances.

#### Special measures for protection against fire and explosion:

Prevent formation of flammable concentrations of vapours in the air, eliminate sources of ignition – don't use open flames, don't smoke.

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

Store only in certified, properly labelled, sealed containers in warehouse of flammable liquids, equipped with ventilation and explosion-proof electrical installation. Protect packaging from heat. At the warehouse observe prohibition of smoking, using open flames and sparking tools. Recommended storage temperature: < 30°C.

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

See section 1.2.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

##### Occupational Exposure Limit Value (Poland):

Hazardous Ingredients	No CAS	LTET, mg/m <sup>3</sup>	STEL, mg/m <sup>3</sup>
mineral oils (mist)	-	5	-
2-aminoethanol	141-43-5	2,5	7,5

#### Allowable concentration of hazardous ingredient in biological material:

Not determined

#### DNEL, PNEC value:

Not determined for product



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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 7 z 13

#### 8.2. Exposure controls

##### Technical exposure controls:

Use engineering controls to reduce air contamination to permissible exposure level.  
Explosion-proof general and local exhaust ventilation.

##### Personal protection:

**a) Respiratory protection** – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A. Use autonomous or stationary isolating equipment in the event of oxygen deficiency (levels below 17% vol.) or when the product concentration exceeds 1% vol.

**b) Hand protection** – wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (color, flexibility, shape).

**c) Eye protection** – required safety glasses in a sealed cover (goggles)

**d) Skin protection** – wear protective clothing with coated fabric (e.g. Viton), antistatic, protective footwear (eg neoprene). For explosive hazard areas use antistatic clothing, gloves and shoes.

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment.)

Applied personal protective equipment must meet the requirements contained in the Directive 89/686/WE (with later changes). Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

##### Environmental exposure controls:

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	no data
Odour:	no data
Odour threshold:	no data
pH:	no data
Melting point/freezing point:	no data



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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 8 z 13

Initial boiling point and boiling range:	no data
Flash point:	no data
Evaporation rate:	no data
Flammability:	no data
Upper/lower flammability or explosive limits:	no data
Vapour pressure:	no data
Vapour density:	no data
Density:	no data
Solubility in water:	no data
Solubility in other solvents:	no data
Partition coefficient: n-octanol/water:	no data
Auto-ignition temperature:	no data
Decomposition temperature:	no data
Viscosity:	no data
Explosive properties:	no data
Oxidising properties:	no data
9.2. Other information	no data

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data

### 10.2. Chemical stability

Stable under normal conditions (see Section 7 - storage conditions)

### 10.3. Possibility of hazardous reactions

Can exothermally react with acidic products

### 10.4. Conditions to avoid

Open flame, other ignition sources

### 10.5. Incompatible materials

Strong acids

### 10.6. Hazardous decomposition products

Under normal conditions of use are not known

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects:

#### Acute toxicity:

Acute Oral Toxicity LD50: no data

Acute Dermal Toxicity LD50: no data

Acute Inhalation Toxicity LC50: no data





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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 9 z 13

ATE value (calculated) after swallowing > 2000 mg/kg – product isn't classified as acute toxicity (swallowing) hazardous acc. to Regulation (EC) No 1272/2008

ATE value (calculated) after skin contact > 2000 mg/kg – product isn't classified as acute toxicity (skin contact) hazardous acc. to Regulation (EC) No 1272/2008

ATE value (calculated) after inhalation > 20 mg/dm<sup>3</sup>/4h (vapours) – product isn't classified as acute toxicity (inhaled) hazardous acc. to Regulation (EC) No 1272/2008

#### **Acute toxicity of hazardous components:**

Acute Oral Toxicity LD50 (rat): > 5000 mg/kg (regarding distillates hydrotreated heavy naphthenic)

Acute Dermal Toxicity LD50 (rabbit): > 2000 mg/kg (regarding distillates hydrotreated heavy naphthenic)

Acute Inhalation Toxicity LC50 (rat): > 5,53 mg/dm<sup>3</sup>/4h (regarding distillates hydrotreated heavy naphthenic)

Acute Oral Toxicity LD50 (rat): 1515 mg/kg (regarding 2-aminoethanol)

Acute Dermal Toxicity LD50 (rabbit): 2504 mg/kg (regarding 2-aminoethanol)

Acute Inhalation Toxicity LC50 (rat): > 1,6 mg/dm<sup>3</sup>/6h (regarding 2-aminoethanol)

Acute Dermal Toxicity LD50 (rabbit): 1851 mg/kg (regarding 1-aminopropan-2-ol)

Acute Oral Toxicity LD50 (rat): 920 mg/kg (regarding sodium 4(or 5)-methyl-1H-benzotriazolide)

Acute Oral Toxicity LD50 (rat): 1300 mg/kg (regarding 3-iodo-2-propynyl butylcarbamate)

Acute Oral Toxicity LD50 (rat): 1000 mg/kg (regarding sodium 4(or 5)-methyl-1H-benzotriazolide)

Acute Oral Toxicity LD50 (rat): 1000 mg/kg (regarding 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol)

Acute Inhalation Toxicity LC50 (rat): 0,371 mg/dm<sup>3</sup>/4h (regarding 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol)

**Skin corrosion/irritation:** product classified as irritant (hazard category 2)

**Serious eye damage/irritation:** product classified as irritant (hazard category 2)

**Respiratory or skin sensitisation:** product classified as skin sensitizer. Contains allergens: tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione, 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 3-iodo-2-propynyl butylcarbamate

**Germ cell mutagenicity:** No data available. Hazardous ingredients of the product aren't mentioned on the list of mutagenic substances

**Carcinogenicity:** No data available. Hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.

**Reproductive toxicity:** product isn't classified as reproductive toxicity hazardous. Product contains hazardous ingredient – boric acid at concentrations below classification limit (< 5,5 % w/w)

**STOT-single exposure:** No data available

**STOT-repeated exposure:** No data available

**Aspiration hazard:** product isn't classified as aspiration hazard, may be fatal if swallowed and enters airways

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Acute Toxicity to fish: no data

Acute Toxicity to aquatic invertebrates: no data

#### 12.2. Persistence and degradability

No data

#### 12.3. Bioaccumulative potential

No data.



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amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 10 z 13

#### 12.4. Mobility in soil

No data

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

Product doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

#### 12.6. Other adverse effects

Product classified as harmful to the aquatic environment, may cause long-term adverse effects in the aquatic environment. Take care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods:

Dispose of waste in accordance with all Federal, State and Local regulations.

**Waste of product:** communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations.

**Disposing of the packaging:** it is prohibited to burn them on the ground. Reusable packaging after cleaning can be further used if necessary.

### SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number: doesn't concern  
14.2. UN proper shipping name: doesn't concern  
14.3. Transport hazard class: doesn't concern  
14.4. Packing group: doesn't concern  
14.5. Environmental hazards: no  
14.6. Special precautions for user: see section 7.1  
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: doesn't concern

### SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation



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### RevCut 70

Date of issue: 20.06.2013

Update: 2015-06-12

Edition:2

Page: 11 z 13

to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- European agreement concerning international road transport of dangerous products (ADR)  
Federal, State and Local regulations

### 15.2. Chemical safety assessment

Chemical safety assessment was not made for the product

### SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring hazardous substances contained in product:

Acute Tox. 4 (oral) Acute Toxicity oral Hazard Category 4

Acute Tox. 4 (derm) Acute Toxicity dermal Hazard Category 4

Acute Tox. 2 (inh) Acute Toxicity inhalation Hazard Category 2

Acute Tox. 3 (inh) Acute Toxicity inhalation Hazard Category 3

Acute Tox. 4 (inh) Acute Toxicity inhalation Hazard Category 4

Skin. Corr. 1A Skin corrosion/irritation, Hazard Category 1A

Skin. Corr. 1B Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1 Sensitisation – Skin, Hazard Category 1

Repr. 1B Reproductive toxicity, Hazard Category 1B

STOT RE 1 Specific target organ toxicity – Repeated exposure, Hazard Category 1

STOT SE 1 Specific target organ toxicity – Single exposure, Hazard Category 1

Aquatic Acute 1 Hazardous to the aquatic environment ACUTE Hazard Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment CHRONIC, Hazard Category 1

Aquatic Chronic 2 Hazardous to the aquatic environment CHRONIC, Hazard Category 2

Aquatic Chronic 3 Hazardous to the aquatic environment CHRONIC, Hazard Category 3



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amending Regulation (EC) No 1907/2006 (REACH)

### RevCut 70

**Date of issue: 20.06.2013**

**Update: 2015-06-12**

**Edition:2**

**Page: 12 z 13**

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H319 Causes serious eye irritation  
H330 Fatal if inhaled  
H331 Toxic if inhaled  
H332 Harmful if inhaled  
H360FD May damage fertility. May damage the unborn child.  
H370 Causes damage to organs  
H372 Causes damage to organs through prolonged or repeated exposure  
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

Explanation of abbreviations and acronyms used in the MSDS:

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high durability and very bioaccumulative

CAS – Chemical Abstracts Service

EINECS – Number assigned to a substance in the European Inventory of Existing Commercial Chemical Substances

STEL – short term exposure limits maximum of a substance harmful to health in the workplace

LTEL – long term exposure limits maximum of a substance harmful to health in the workplace

DSB – permissible concentration in biological material

LD50 – lethal dose 50%

LC50 – lethal concentration 50%

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of mixture was made based on content of hazardous components, according to the Directive 1999/45/EC (as amended) and Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.

Recommendation and restriction of use: Use according to label. Additional safety information available at producer. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility



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## MATERIAL SAFETY DATA SHEET

prepared in accordance with Commission Regulation (EU) 2015/830  
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**Page: 13 z 13**

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to satisfy himself as to the suitability of such information for his own particular use.

Update from 12.06.2015 regarding section 1 – 13.