according to Regulation (EC) No. 1907/2006 (REACH)

# **CONDURON G55HK**

Version number: GHS 1.0 Date of compilation: 2016-04-20

#### SECTION 1: Identification

#### 1.1 Product identifier

Trade name CONDURON G55HK
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses coating for particular industrial and professional uses

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

Manufacturer: NÜSSLE GmbH & Co. KG Isoliermittel für Härtetechnik Iselshauserstr. 55 D-72202 NAGOLD GERMANY mail@nuessle-kg.de Phone +49 (0)7452 93205- 0

Phone +49 (0)7452 93205-0 Fax +49 (0)7452 93205-20

Supplier:

THE DUFFY COMPANY

283 E. Hellen Rd. Palatine, II. 60067-6954

USA

Phone: (847) 202-0000 Fax (847) 202-0004

Competent person responsible for the safety data

sheet

e-mail (competent person)

B. Schinagl

mail@nuessle-kg.de

# 1.4 Emergency telephone number

Emergency information service InfoTrac 1-800-535-5053

#### SECTION 2: Hazard(s) identification

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard state- ment
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
3.3	serious eye damage/eye irritation	Cat. 1	(Eye Dam. 1)	H318
4.1A	hazardous to the aquatic environment - acute hazard	Cat. 1	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

#### Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

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#### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

**Pictograms** 

GHS05, GHS09



#### **Hazard statements**

H315 Causes skin irritation. H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

#### Precautionary statements - prevention

P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.

#### Precautionary statements - 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.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

#### Precautionary statements - disposal

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

regulations.

**Hazardous ingredients for labelling:** Silicic acid, sodium salt (1.6<MR<=2.6)

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### **Description of the mixture**

Name of sub- stance	CAS No	EC No	Wt%	Classification acc. to GHS	Pictograms
Silicic acid, sodium salt (1.6 <mr<=2.6)< td=""><td>1344-09-8</td><td>215-687-4</td><td>10 - &lt; 25</td><td>Skin Irrit. 2 / H315 Eye Dam. 1 / H318</td><td></td></mr<=2.6)<>	1344-09-8	215-687-4	10 - < 25	Skin Irrit. 2 / H315 Eye Dam. 1 / H318	
Dicopperoxide	1317-39-1	215-270-7	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	<u>!</u>
Copper	7440-50-8	231-159-6	1 - < 5	Aquatic Acute 1 / H400	***
disodium tetraborate, anhydrous	1303-96-4	215-540-4	1 - < 5	Eye Irrit. 2 / H319 Repr. 1B / H360	<b>(1)</b>

according to Regulation (EC) No. 1907/2006 (REACH)

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SVHC: 1303-96-4 Natriumtetraborat . For full text of abbreviations: see SECTION 16.

#### SECTION 4: First-aid measures

#### 4.1 Description of firs- aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Fire-fighting measures

#### Extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

# Unsuitable extinguishing media

water jet

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

#### **Hazardous combustion products**

nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

# SECTION 6: Accidental release measures

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

### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

according to Regulation (EC) No. 1907/2006 (REACH)

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

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust., kieselgur (diatomite), sand, universal binder).

#### Appropriate containment techniques

Use of adsorbent materials.

# Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

### Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

#### Incompatible substances or mixtures

Observe compatible storage of chemicals.

#### Consideration of other advice

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**National limit values** 

Occupational exposure limit values (Workplace Exposure Limits)

No information available.

# Relevant DNELs/DMELs/PNECs and other threshold levels

#### • relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
Copper	7440-50- 8	DNEL	1 mg/m³	human, inhalatory	worker (in- dustry)	acute - local effects
Copper	7440-50- 8	DNEL	273 mg/kg	human, dermal	worker (in- dustry)	acute - systemic ef- fects
Copper	7440-50- 8	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	acute - systemic ef- fects
Copper	7440-50- 8	DNEL	1 mg/m³	human, inhalatory	worker (in- dustry)	chronic - local effects

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Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
Copper	7440-50- 8	DNEL	137 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
disodium tetraborate, anhydrous	1303-96- 4	DNEL	316.4 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
disodium tetraborate, anhydrous	1303-96- 4	DNEL	6.7 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects

# • relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environ- mental com- partment	Exposure time
Dicopperoxide	1317-39- 1	PNEC	7.8 μg/l	aquatic organisms	freshwater	short-term (single in- stance)
Dicopperoxide	1317-39- 1	PNEC	5.2 μg/l	aquatic organisms	marine water	short-term (single in- stance)
Dicopperoxide	1317-39- 1	PNEC	230 μg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
Dicopperoxide	1317-39- 1	PNEC	87 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single in- stance)
Dicopperoxide	1317-39- 1	PNEC	676 mg/kg	aquatic organisms	marine sedi- ment	short-term (single in- stance)
Dicopperoxide	1317-39- 1	PNEC	65 mg/kg	terrestrial organisms	soil	short-term (single in- stance)
Copper	7440-50- 8	PNEC	7.8 μg/l	aquatic organisms	freshwater	short-term (single in- stance)
Copper	7440-50- 8	PNEC	5.2 μg/l	aquatic organisms	marine water	short-term (single in- stance)
Copper	7440-50- 8	PNEC	230 μg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
Copper	7440-50- 8	PNEC	87 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single in- stance)
Copper	7440-50- 8	PNEC	676 mg/kg	aquatic organisms	marine sedi- ment	short-term (single in- stance)
Copper	7440-50- 8	PNEC	65 mg/kg	terrestrial organisms	soil	short-term (single in- stance)
disodium tetraborate, anhydrous	1303-96- 4	PNEC	2.9 mg/l	aquatic organisms	freshwater	short-term (single in- stance)
disodium tetraborate, anhydrous	1303-96- 4	PNEC	2.9 mg/l	aquatic organisms	marine water	short-term (single in- stance)
disodium tetraborate, anhydrous	1303-96- 4	PNEC	10 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
disodium tetraborate, anhydrous	1303-96- 4	PNEC	5.7 mg/kg	terrestrial organisms	soil	short-term (single in- stance)
disodium tetraborate, anhydrous	1303-96- 4	PNEC	13.7 mg/l	aquatic organisms	water	continuous

according to Regulation (EC) No. 1907/2006 (REACH)

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#### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

#### **Eye/face protection**

Wear eye/face protection.

Skin protection

#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### · type of material

NBR: acrylonitrile-butadiene rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# SECTION 9: Physical and chemical properties

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

#### **Appearance**

Physical state liquid (viscous)
Color red brown

Odor faintly perceptible

Other physical and chemical parameters

pH (value) 11 (20 °C)
Melting point/freezing point not determined

Initial boiling point and boiling range 100 °C

Flash point not applicable
Evaporation rate not determined
Flammability (solid, gas) not relevant (fluid)
Explosive limits not determined
Vapor pressure 23 Pa at 20 °C

Density 2 g/<sub>cm³</sub> at 20 °C

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

n-octanol/water (log KOW)

This information is not available.

Auto-ignition temperature not determined

Viscosity

dynamic viscosity
 5000 - 10000 mPa s at 20 °C

Explosive properties none Oxidizing properties none

according to Regulation (EC) No. 1907/2006 (REACH)

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#### 9.2 Other information

Solid content 70 - 80 %

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

acids

#### Release of flammable materials with

light metals (due to the release of hydrogen in an acid/alkaline medium)

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## Classification according to GHS (1272/2008/EC, CLP)

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### • Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Dicopperoxide	1317-39-1	oral	1340
Dicopperoxide	1317-39-1	inhalation: dust/mist	1.5

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

# Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

according to Regulation (EC) No. 1907/2006 (REACH)

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#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### **Aquatic toxicity (chronic)**

May cause long-term adverse effects in the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
disodium tetraborate, anhydrous	1303-96-4		-1.53	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

#### List of wastes

08 01 11x Wastes from MFSU and removal of paint and varnish

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

according to Regulation (EC) No. 1907/2006 (REACH)

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SECTION 14: Transport information
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**14.1** UN number **3082** 

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S.

**14.3** Transport hazard class(es)

Class 9 (environmentally hazardous)

14.4 Packing group III (substance presenting low danger)

**14.5** Environmental hazards hazardous to the aquatic environment (Copper)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

# Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

Class 9
Classification code M6
Packing group III

Danger label(s) 9 + "fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Tunnel restriction code (TRC) E
Hazard identification No 90

Remarks

Are not subject to the requirements of ADR if packed in receptacles of not more than 450 litres capacity.

International Maritime Dangerous Goods Code (IMDG)

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

Class 9

Marine pollutant yes (hazardous to the aquatic environment)

Packing group II

Danger label(s) 9 + "fish and tree"



Special provisions (SP) 274, 335, 909

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-A, S-F

Stowage category A

according to Regulation (EC) No. 1907/2006 (REACH)

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#### • International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Class 9

Environmental hazards yes (hazardous to the aquatic environment)

Packing group III

Danger label(s) 9 + "fish and tree"

Special provisions (SP) A97, A158, 274

Excepted quantities (EQ) E1
Limited quantities (LQ) 30 kg

## SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations specific for the product in question

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **National regulations (United States)**

#### **NFPA**

Category	Degree of haz- ard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

Flammability: Flammability hazard Health: Health hazard Instability: Instability hazard

#### **HMIS**

Category	Rating	Description
Chronic	/	none
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protective equipment	-	

Chronic: Chronic hazard Flammability: Flammability hazard Health: Health hazard

Personal pro-Personal protective equipment (PPE) for normal use

tective equip-

ment:

Physical haz-Reactivity

ard:

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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# SECTION 16: Other information, including date of preparation or last revision

# **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations				
Acute Tox.	acute toxicity				
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)				
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)				
Aquatic Acute	hazardous to the aquatic environment - acute hazard				
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard				
ATE	Acute Toxicity Estimate				
BCF	BioConcentration Factor				
BOD	Biochemical Oxygen Demand				
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)				
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures				
CMR	Carcinogenic, Mutagenic or toxic for Reproduction				
COD	chemical oxygen demand				
DGR	Dangerous Goods Regulations (see IATA/DGR)				
DMEL	Derived Minimal Effect Level				
DNEL	Derived No-Effect Level				
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)				
EINECS	European Inventory of Existing Commercial Chemical Substances				
ELINCS	European List of Notified Chemical Substances				
EmS	Emergency Schedule				
Eye Dam.	seriously damaging to the eye				
Eye Irrit.	irritant to the eye				
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations				
HMIS	Hazardous Materials Identification System				
IATA	International Air Transport Association				
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)				
ICAO	International Civil Aviation Organization				
IMDG	International Maritime Dangerous Goods Code				
log KOW	n-octanol/water				
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)				
NFPA	National Fire Protection Association (United States)				
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)				
NLP	No-Longer Polymer				
PBT	Persistent, Bioaccumulative and Toxic				
PNEC	Predicted No-Effect Concentration				
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals				

according to Regulation (EC) No. 1907/2006 (REACH)

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Abbr.	Descriptions of used abbreviations
Repr.	reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
vPvB	very Persistent and very Bioaccumulative

# Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)

# Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	harmful if swallowed
H315	causes skin irritation
H318	causes serious eye damage
H319	causes serious eye irritation
H332	harmful if inhaled
H360	may damage fertility or the unborn child
H400	very toxic to aquatic life
H411	toxic to aquatic life with long lasting effects
H412	harmful to aquatic life with long lasting effects

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.