



SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND	Version: 2.0
831545	

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_DE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ROKONSAL ND

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

Recommended use : Preservative

1.3 Details of the supplier of the safety data sheet

Ashland
P.O. Box 8619
NL3009 AP, Rotterdam
Netherlands
+31 10 497 5000 (in the Netherlands), or
contact your local CSR contact person

EUSMT@ashland.com

1.4 Emergency telephone number

00-800-274-5263-3/001-859-357-3564, or contact
your local emergency telephone number at 112

Product Information

+31 10 497 5000 (in the Netherlands), or contact
your local CSR contact person

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - repeated exposure, Category 1, Lungs	H372: Causes damage to organs through prolonged or repeated exposure if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND	Version: 2.0
831545	

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary statements

: **Prevention:**
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ eye protection/ face protection.

Response:
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 P314 Get medical advice/ attention if you feel unwell.

Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

2-Phenoxyethanol

Benzoic acid

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional advice

The classification, STOT RE 1 and 2 is not applicable for this liquid product as this classification is related to powders.

No information available.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2-Phenoxyethanol	122-99-6 204-589-7 01-2119488943-21-0020 01-2119488943-21-xxxx	Acute Tox.4; H302 Eye Irrit.2; H319	>= 80,00 - < 90,00
Benzoic acid	65-85-0 200-618-2 01-2119455536-33-xxxx	Skin Irrit.2; H315 Eye Dam.1; H318 STOT RE1; H372	>= 10,00 - < 15,00
3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6 208-293-9 01-2120747930-51-0005	Acute Tox.4; H302	>= 5,00 - < 10,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water.



SAFETY DATA SHEET		Revision Date: 22.11.2018
		Print Date: 13.12.2018
		SDS Number: R0717413
ROKONSAL ND		Version: 2.0
831545		

Wash contaminated clothing before re-use.

- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Cough
Headache
pain in the abdomen and lower back
Shortness of breath
acute kidney failure (sudden slowing or stopping of urine production)
Convulsions
- Risks : Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Causes damage to organs through prolonged or repeated exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Hydrocarbons
Acid anhydrides
Burning produces irritant fumes.
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

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

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Protect from frost.

Storage class (TRGS 510) : 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

Storage temperature : 5 - 25 °C

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Phenoxyethanol	122-99-6	AGW (Vapour and aerosols)	20 ppm 110 mg/m ³ Vapour and aerosols	DE TRGS 900

8.2 Exposure controls
Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

 Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
 Maintain eye wash station in immediate work area.



SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND	Version: 2.0
831545	

Use eye protection according to EN 166.

Hand protection

Material : butyl-rubber
 Break through time : 480 min
 Glove thickness : > 0,5 mm

Remarks

: The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

butyl-rubber

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection

: Wear as appropriate:
 Impervious clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.

Protective clothing complying with EN 13688.

Safety shoes complying with EN ISO 20345.

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.
 Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

Respiratory protection complying with EN 136.

Respiratory protection complying with EN 140.

Respiratory protection complying with EN 14387.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: noticeable
Odour Threshold	: No data available
pH	: 4 (20 °C)
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 150 °C
Flash point	: 130 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: < 1 hPa
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,13 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: 5 g/l (20 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat
Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : Reducing agents
Strong acids
Strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Carbon monoxide
Carbon dioxide (CO₂)
Hydrocarbons
Acetone

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Harmful if swallowed.

Components:

2-Phenoxyethanol

Acute oral toxicity : LD50 (Rat, female): 1.840 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): 14.391 mg/kg

Components:

Benzoic acid

Acute oral toxicity : LD50 (Rat): ca. 2.565 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 12,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Components:

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione

Acute oral toxicity : LD50 (Rat): 570 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

2-Phenoxyethanol

Species: Rabbit

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

Result: **No skin irritation**

Benzoic acid

Result: **Irritating to skin.**

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

2-Phenoxyethanol

Species: **Rabbit**

Result: **Irritating to eyes.**

Benzoic acid

Species: **Rabbit**

Result: **Corrosive**

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

2-Phenoxyethanol

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Benzoic acid

Test Type: **Local lymph node assay**

Species: **Mouse**

Assessment: **Does not cause skin sensitisation.**

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Phenoxyethanol

Genotoxicity in vitro : Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

Benzoic acid

Genotoxicity in vitro : Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

**SAFETY DATA SHEET**

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

Version: 2.0

ROKONSAL ND

831545

Result: **negative****Carcinogenicity**

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

2-Phenoxyethanol

Effects on foetal development

: Test Type: **Pre-natal**Species: **Rat**Application Route: **Oral**General Toxicity Maternal: **No observed adverse effect level: ca. 300 mg/kg bw/day**Method: **OPPTS 870.3700****STOT - single exposure**

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Components:

Benzoic acid

Exposure routes: **Inhalation**Target Organs: **Lungs**Assessment: **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.****Repeated dose toxicity****Components:**

2-Phenoxyethanol

Species: **Rat, male and female**NOAEL: **369 mg/kg**Application Route: **Oral**Method: **OECD Test Guideline 408**Species: **Rabbit, male and female**NOAEL: **500 mg/kg**Application Route: **Dermal****Aspiration toxicity**

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Phenoxyethanol

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 337 - 352 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: NOEC (Desmodesmus subspicatus (green algae)): > 500 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic toxicity)	: NOEC: 23 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow) Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 9,43 mg/l Exposure time: 21 d End point: Reproduction Test Species: Daphnia (water flea) Test Type: semi-static test Method: OECD Test Guideline 211

Benzoic acid

Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 44,6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	: NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l End point: Growth inhibition

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

	Exposure time: 72 h
	Test Type: static test
	Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOEC: > 120 mg/l
	Exposure time: 28 d
	Species: Oncorhynchus mykiss (rainbow trout)
	Test Type: semi-static test
	Method: OECD Test Guideline 204
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: >= 25 mg/l
	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	Test Type: semi-static test
	Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

2-Phenoxyethanol

Biodegradability	: Result: Readily biodegradable.
	Biodegradation: 99 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301F

Benzoic acid

Biodegradability	: Result: Readily biodegradable.
------------------	----------------------------------

12.3 Bioaccumulative potential

Components:

2-Phenoxyethanol

Partition coefficient: n-octanol/water	: log Pow: 1,16
--	-----------------

Benzoic acid

Bioaccumulation	: Species: Gambusia affinis (Mosquito fish)
	Exposure time: 24 h
	Concentration: 0,00178 mg/l
	Bioconcentration factor (BCF): 21
	Method: Static
Partition coefficient: n-octanol/water	: log Pow: 1,87

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

ROKONSAL ND

Version: 2.0

831545

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

2-Phenoxyethanol

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

: This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SAFETY DATA SHEET

Revision Date: 22.11.2018

Print Date: 13.12.2018

SDS Number: R0717413

Version: 2.0

ROKONSAL ND

831545

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

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.2 UN proper shipping name

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.3 Transport hazard class(es)

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.4 Packing group

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.5 Environmental hazards

ADR: Not applicable


INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

	Page: 18
SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND 831545	Version: 2.0

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable
Hazard code(s): Not applicable
Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable


REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
(3)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : WGK 1 slightly hazardous to water

TA Luft List (Germany) : Total dust, Not applicable

: Inorganic substances in powdered form, Not applicable

	Page: 19
SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND 831545	Version: 2.0

- : Inorganic substances in vapour or gaseous form, Not applicable
- : Organic Substances, Not applicable
- : Carcinogenic substances, Not applicable
- : Mutagenic, Not applicable
- : Toxic to reproduction, Not applicable

Other regulations : Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.


The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
TSCA	On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

	Page: 20
SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND 831545	Version: 2.0

number

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Revision Date: 22.11.2018

Classification procedure:

H302	Harmful if swallowed.	Calculation method
H315	Causes skin irritation.	Calculation method
H318	Causes serious eye damage.	Calculation method
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.	Calculation method

Full text of H-Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet
 Ashland internal data including own and sponsored test reports




SAFETY DATA SHEET	Revision Date: 22.11.2018
	Print Date: 13.12.2018
	SDS Number: R0717413
ROKONSAL ND	Version: 2.0
831545	

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: Regulation for the Carriage of Dangerous Substances on the Rhine
 CLP : Classification, Labelling and Packaging
 CSA : Chemical Safety Assessment
 CSR : Chemical Safety Report
 DNEL : Derived No Effect Level.

	Page: 22
SAFETY DATA SHEET	Revision Date: 22.11.2018
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EINECS : European Inventory of Existing Commercial Chemical Substances.
 ELINCS : European List of Notified Chemical Substances
 GV: Exposure limits (DK)
 PEC : Predicted Effect Concentration
 PEL : Permissible Exposure Limits
 PNEC : Predicted No Effect Concentration
 R-phrase : Risk phrase
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
 S-phrase: Safety phrase
 WGK : German Water Hazard Class