Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 01.09.2023 Version: 7.00

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	RBS 50
REACH registration exemptions	:	Exempted from REACH registration
Product group		Trade product
Flouder group	•	riade product

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture Professional use, Industrial useDetergent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

CHEMICAL PRODUCTS R. BORGHGRAEF S.A. Rue Bollinckx 271-273 1190 Bruxelles Belgique T +32 2 332 15 66 - F + 32 2 332 0805 msds@rbs-cp.be - www.rbs-cp.be

Antipoison Center

Belgisch Antigif Centrum / Centre Antipoison Belge T + 32 (0)70 245 245

1.4. Emergency telephone number

Emergency number

: +32 2 332 15 66

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin corrosion/irritation, Category 1, Sub-Category 1B H314 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP) Contains Hazard statements (CLP) Precautionary statements (CLP)



- : Sodium hypochlorite solution; Sodium hydroxide
- : H314 Causes severe skin burns and eye damage.

P280 - Wear protective gloves / protective clothing / eye protection / face protection.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

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clothing. Rinse skin with water/shower.

P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tetrapotassium pyrophosphate	CAS-No.: 7320-34-5 EC-No.: 230-785-7 REACH-no: 01-2119489369- 18	< 30	Eye Irrit. 2, H319
Sodium hypochlorite solution	CAS-No.: 7681-52-9 EC-No.: 231-668-3 EC Index-No.: 017-011-00-1 REACH-no: 01-2119488154- 34	1 – 5	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	1 – 5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Sodium hypochlorite solution	CAS-No.: 7681-52-9 EC-No.: 231-668-3 EC Index-No.: 017-011-00-1 REACH-no: 01-2119488154- 34	(5 ≤ C < 100) EUH031
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	$(0,5 \le C < 2)$ Eye Irrit. 2, H319 $(0,5 \le C < 2)$ Skin Irrit. 2, H315 $(2 \le C < 5)$ Skin Corr. 1B, H314 $(5 \le C < 100)$ Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation develops. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Consult an ophtalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Symptoms/effects

: Causes severe skin burns and eye damage.

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

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: All extinguishing media can be used.			
5.2. Special hazards arising from the substance or mixture				
Fire hazard	: Not flammable.			
5.3. Advice for firefighters				
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipm	ent and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures	Evacuate unnecessary personnel.			
6.1.2. For emergency responders Protective equipment Emergency procedures	Equip cleanup crew with proper protection.			
6.2. Environmental precautions				
Prevent entry to sewers and public waters.				
6.3. Methods and material for containment and cleaning up				
Methods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.			

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, include	ing any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place Keep container closed when not in use.
Incompatible products	: Acids.
Incompatible materials	: Sensitive metals.
Storage temperature	: 5 – 25 °C The product may be stored at a minimum temperature of 3°C or a maximum temperature of 50°C for a continuous period of 200 days without alteration.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Sodium hydroxide (1310-73-2)		
Belgium - Occupational Exposure Limits		
OEL TWA	2 mg/m ³	
Remark	М	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or face shield

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

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Hand protection:

Wear protective gloves.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.11 mm		

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. if handling airborne particles generates (in case of vapor / spray).

Respiratory protection			
Device	Filter type	Condition	Standard
Disposable half mask	Туре Р2		

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

9.1. Information on basic physical and chemical properties		
Physical state Colour	: Liquid : light yellow.	
Appearance	: Colorless to pale yellow liquid.	
Odour	: Lightly chlorinated.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Non flammable.	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: Not available	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: 13,8	
Viscosity, kinematic	: Not available	
Viscosity, dynamic	: 2,3 mPa.s	
Solubility	: Totally in the water.	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: 1,24	
Relative vapour density at 20°C	: Not available	
Particle characteristics	: Not applicable	

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
Reacts with : Acids.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

According to process conditions, hazardous decomposition products may be generated.

SECTION 11: Toxicological information			
	d in Pagulation (EC) No 1272/2009		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral) : Acute toxicity (dermal) :	Not classified Not classified		
	Not classified		
RBS 50			
LD50 oral rat	> 2000 mg/kg		
Sodium hypochlorite solution (7681-52-9)			
LD50 oral rat	> 1100 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
LC50 Inhalation - Rat	> 10500 mg/l		
Sodium hydroxide (1310-73-2)			
LD50 oral	> 500 mg/kg Rabbit		
Tetrapotassium pyrophosphate (7320-34-5)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	> 7940 mg/kg		
Skin corrosion/irritation :	Causes severe skin burns. pH: 13,8		
Sodium hypochlorite solution (7681-52-9)			
рН	> 11		
Serious eye damage/irritation :	Assumed to cause serious eye damage pH: 13,8		
Sodium hypochlorite solution (7681-52-9)			
рН	> 11		
Respiratory or skin sensitisation:Additional information:	Not classified Based on available data, the classification criteria are not met		

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Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
11.2. Information on other hazards	

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

(acute)	Not classified		
RBS 50			
LC50 - Fish [1]	> 100 mg/l		
EC50 - Crustacea [1]	> 30 mg/l		
Sodium hypochlorite solution (7681-52-9)			
LC50 - Fish [1]	0,06 mg/l		
EC50 - Crustacea [1]	0,141 mg/l		
EC50 72h - Algae [1]	0,04 mg/l		
NOEC chronic fish	> 0,04 mg/l		
Sodium hydroxide (1310-73-2)			
LC50 - Fish [1]	33 (33 – 189) mg/l		
EC50 - Crustacea [1]	40 (40 – 240) mg/l		

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Tetrapotassium pyrophosphate (7320-34-5)			
LC50 - Fish [1]	> 100 mg/l		
EC50 - Crustacea [1]	> 100 mg/l		
12.2. Persistence and degradability			
RBS 50			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
RBS 50			
Bioaccumulative potential	Not established.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
Additional information :	Avoid release to the environment.		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations Ecology - waste materials	Dispose in a safe manner in accordance with local/national regulations.Avoid release to the environment.

SECTION 14: Transport information

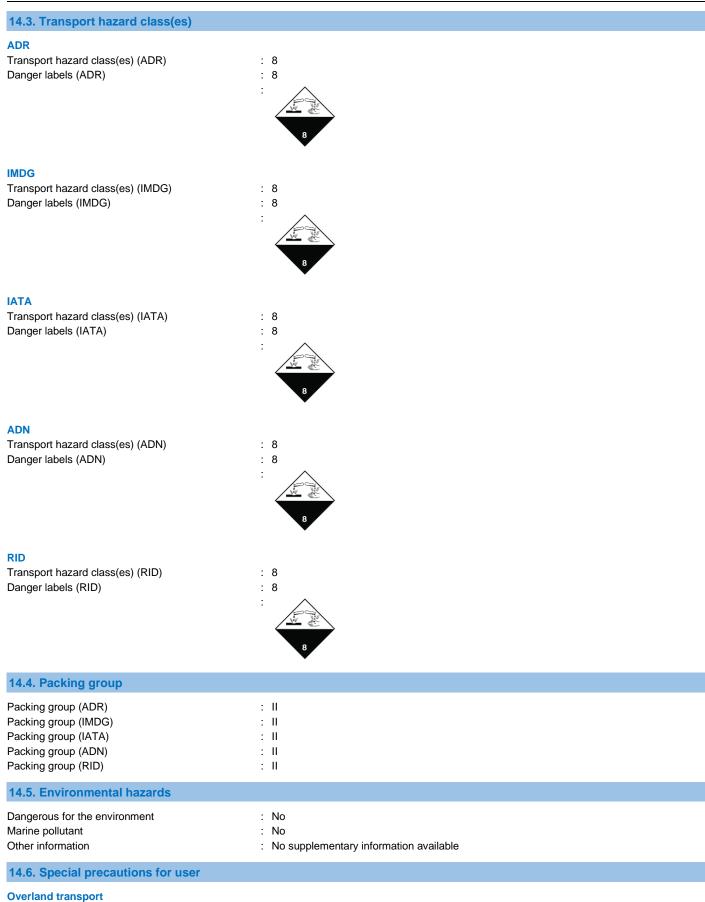
In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	: UN 1824
UN-No. (IMDG)	: UN 1824
UN-No. (IATA)	: UN 1824
UN-No. (ADN)	: UN 1824
UN-No. (RID)	: UN 1824
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA)	: Sodium hydroxide solution
Proper Shipping Name (ADN)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (RID)	: SODIUM HYDROXIDE SOLUTION
Transport document description (ADR)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)
Transport document description (IMDG)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II
Transport document description (IATA)	: UN 1824 Sodium hydroxide solution, 8, II
Transport document description (ADN)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II
Transport document description (RID)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

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Classification code (ADR)

Limited quantities (ADR)

: C5

: 11

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: E

: E2 : Y840 : 0.5L : 851 : 1L : 855 : 30L : A3 : 8L

Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	MP15
Portable tank and bulk container instructions (ADR)	:	T7
Portable tank and bulk container special provisions	:	TP2
(ADR)		
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Hazard identification number (Kemler No.)	:	80
Orange plates	:	80
		1824

Tunnel restriction code (ADR)

Transport by sea

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T7
Tank special provisions (IMDG)	:	TP2
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	A
Segregation (IMDG)	:	SG35
Properties and observations (IMDG)	:	Colourless liquid.

: Colourless liquid. Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

Air transport

PCA Excepted quantities (IATA)
PCA Limited quantities (IATA)
PCA limited quantity max net quantity (IATA)
PCA packing instructions (IATA)
PCA max net quantity (IATA)
CAO packing instructions (IATA)
CAO max net quantity (IATA)
Special provisions (IATA)
ERG code (IATA)

Inland waterway transport

Classification code (ADN)	:	C5
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0

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Rail transport		
Classification code (RID)	:	C5
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	MP15
Portable tank and bulk container instructions (RID)	:	T7
Portable tank and bulk container special provisions	:	TP2
(RID) Tank codes for RID tanks (RID)		I 4BN
Transport category (RID)	•	2
Colis express (express parcels) (RID)	-	- CE6
Hazard identification number (RID)	:	80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	: 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.
Other information	: None.

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Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
EUH031	Contact with acids liberates toxic gas.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

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