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

1.1 Product identifier

Commercial Product Name	**AB-N**

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

Relevant identified uses	Heat treatment of steel. Only for industrial use.
Recommended restrictions	None known.

1.3 Details of the supplier of the safety data sheet

Address	Durferrit GmbH Industriestraße 3 D-68169 Mannheim Telephone: +49 621 32224-0 FAX: +49 621 32224-809 Email: info@hef-durferrit.com
Contact person	Product-Safety@hef-durferrit.com
Responsible Department	DUS Telephone: +49 621 / 32224 - 28 Fax: +49 621 / 32224 - 800

1.4 Emergency telephone number

Emergency telephone number	0049 (0) 6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	Ox. Sol. 2; H272 Met. Corr. 1; H290 Skin Corr. 1A; H314
*Classification according to Directive 67/548/EEC / 1999/45/EEC	O; R8 C; R35

2.2 Label elements

Hazard pictogram

GHS03

GHS05

Signal word	Danger
Hazardous component(s) to be indicated on label	Sodium hydroxide
H-statement(s)	H272: May intensify fire; oxidiser. H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage.
*P-statement(s)	P220: Keep/Store away from clothing/ combustible materials. P221: Take any precaution to avoid mixing with combustibles P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P405: Store locked up.
P406: Store in corrosive resistant container with a resistant inner liner.

2.3 Other hazards

Health hazard	This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. The preparation is classified as dangerous in accordance with Directive 1999/45/EC.
Particular information pertaining specific risk for human / environment	The molten product can cause serious burns. Eruption of the salt melt on bringing in moisture. During contact with acids or overheating the product (T > 650°C; e.g. in case of fire) nitrous gases could develop. Oxidizing: Risk of fire if brought into contact with slightly oxidizable (combustible) substances, e.g. organic compounds, soot. slightly water endangering

SECTION 3: Composition/information on ingredients

Chemical characterization: Mixture of alkali hydroxide, alkali nitrate and alkali carbonate.

Hazardous ingredients

Ingredient		Classification (EEC) No 67/548 Classification (EC) 1272/2008	Concentration
Lithium carbonate	CAS No.: 554-13-2 EC-No.: 209-062-5 REACH No.: 01-2119516034-53-0000	Xn; R22 Xi; R36 Acute Tox. 4;H302 Eye Irrit. 2;H319	< 25.0 % by weight
Sodium carbonate	CAS No.: 497-19-8 EC-No.: 207-838-8 Index-No.: 011-005-00-2 REACH No.: 01-2119485498-19-0000	Xi; R36 Eye Irrit. 2; H319	< 20.0 % by weight
Potassium carbonate	CAS No.: 584-08-7 EC-No.: 209-529-3 REACH No.: 01-2119532646-39-0000	Xi;R36/37/38 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	< 20.0 % by weight
Sodium nitrate	CAS No.: 7631-99-4 EC-No.: 231-554-3 REACH No.: 01-2119488221-41-0000	O; R8 Xi; R36 Ox. Sol. 2;H272 Eye Irrit. 2;H319	>= 10.0 % by weight
Sodium hydroxide	CAS No.: 1310-73-2 EC-No.: 215-185-5 Index-No.: 011-002-00-6 REACH No.: 01-2119457892-27-0000	C; R35 Skin Corr. 1A;H314 Met. Corr. 1;H290	> 5.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	First aider needs to protect himself.
If inhaled	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse out nose and throat with plenty of water. Consult a physician. Following inhalation of reaction products (nitrous gases) seek medical attention and observe the victim for at least 48 hours. Later control for pneumonia and lung

	oedema. If there is a risk that patient will lose consciousness lay him on his side in a stable position, also during transportation. If necessary, artificial respiration.
In case of skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash clothing before reuse.
In case of eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
If swallowed	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately. If a person vomits when lying on his back, place him in the recovery position.
Notes to physician	- If severe caustic burning of the mouth and throat has occurred, a tracheotomy could be necessary. With Glottis Oedema as a result of mists intubation. - Formation of pulmonary oedema after inhaling nitrous gases. Symptoms can be delayed. Patient should be monitored for at least 48 hours. First aid procedures: Inhale metered aerosol (Glucocorticoids for inhalation).

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	- Eye contact:
Symptoms:	Lachrymation, Pain, Redness, Swelling of tissue, Corneal opacity, Blindness.
	- Inhalation:
Symptoms:	Cough, Shortness of breath, Lachrymation, Salivation, Pain, Redness, Swelling of tissue, Swollen corrosion of the mucous membranes, Nose bleeding, Lung oedema.
	- Skin contact:
Symptoms:	Redness, Swelling of tissue, Blistering, Pain. Causes poorly healing wounds.
	- Ingestion:
Symptoms:	Salivation, Redness, Pain, Gastrointestinal discomfort, Stomach perforation, Bloody vomiting, Circulatory collapse.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	In storage areas: Water, Water mist, Dry chemical, Foam In heat treatment shops: Water mist, Dry chemical, Dry powder Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Extinguishing media which must not be used for safety reasons	Powder extinguishers containing ammonia salts In heat treatment shops: High volume water jet. Do not direct jets of water into salt melts!!

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Nitrous gases can be liberated during a fire. These should be beaten down with water mist. Oxidizing properties. Release of oxygen, exothermic reaction.

5.3 Advice for firefighters

Special protective equipment for firefighting	Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information on firefighting	The product itself does not burn. In case of fire, primarily cooling of salt baths with finely dispersed water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and clothing. Do not breathe dust. Avoid dust formation. Wear suitable protective equipment. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions	The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Retain and dispose of contaminated wash water. The aqueous medium should be given appropriate treatment as waste water in line with local regulations.

6.4 Reference to other sections

Reference to other sections	For personal protection see section 8. Disposal considerations: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	Keep container tightly closed. Avoid dust formation. Use personal protective equipment. Protect from moisture. Ensure adequate ventilation, especially in confined areas. Aqueous solutions of the product attack aluminium and its alloys.
Advice on protection against fire and explosion	Oxidizing Material

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements	Store in accordance with local regulations. Consider the local regulations.
Unsuitable materials for containers	Do not use containers made from aluminium, tin, zinc, chromium or lead.
Hints on storage assembly	Keep away from combustible material. Do not store together with acids and ammonium salts. Separate from cyanides. Keep away from food, drink and animal feeding stuffs.
Storage specifications	Keep containers dry and tightly closed to avoid moisture absorption and contamination.
TRGS 510	5.1 B
Recommended storage temperature	No Limit

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Lithium carbonate

DNEL

Value	Target group	Exposure route	Remarks	Source
100 mg/kg	Workers	Skin contact	Acute effects	7
26,61 mg/kg	Workers	Skin contact	Chronic effects	7
50 mg/kg	Consumers	Skin contact	Acute effects	7
7,02 mg/m³	Workers	Inhalation	Acute effects	7
2,34 mg/m³	Workers	Inhalation	Chronic effects	7
3,03 mg/m³	Consumers	Inhalation	Acute effects	7

Source: 7 - external safety data sheet

PNEC

Value	Remarks	Source
1,05 mg/L	Fresh water	7
4,09 mg/kg	Freshwater sediment	7
0,11 mg/L	Sea water	7
0,41 mg/kg	Marine sediment	7
0,8381 mg/kg	Soil	7
122,2 mg/L	Behaviour in waste water treatment plants	7

Source: 7 - external safety data sheet

Sodium nitrate

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
20,8 mg/kg	Workers	Skin contact	Long term effects	7
12,5 mg/kg	Consumers	Skin contact	Long term effects	7
36,7 mg/m³	Workers	Inhalation	Long term effects	7
10,9 mg/m³	Consumers	Inhalation	Long term effects	7
12,5 mg/kg	Consumers	Ingestion	Long term effects	7

Source: 7 - external safety data sheet

PNEC

Value	Remarks	Source
0,45 mg/L	Fresh water	7
0,045 mg/L	Sea water	7
18 mg/L	Behaviour in waste water treatment plants	7

Source: 7 - external safety data sheet

Sodium hydroxide

Great Britain

Short-term exposure value / mg/m3	Source
2	19

Source: 19 - EH40/2005 Workplace exposure limits (2011)

Ireland

Short-term exposure value / mg/m3	Source
2	32

Source: 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

Dusts non-specific

Ireland

Long-term exposure value/ mg/m3	Note	Source
10	total inhalable	32

Source: 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

8.2 Exposure controls

Respiratory protection	In case of dust: Half mask with a particle filter P2 (EN 143).
Remarks:	The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
	In case of nitrous gases: Gas filter NO - blue.
Hand protection	In heat treatment shops: Multi-layered, easily removable mittens with cuff.
	In storage areas: Rubber gloves(for example Tricotril 737; Break through time ≥ 480 Minutes; KCL)
Remarks:	The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	In storage areas: Tightly fitting safety goggles In heat treatment shops: Face shield made from self-extinguishing polycarbonate.
Skin and body protection	- In heat treatment shops: Multi-layered protective clothing (no synthetic fibres): for example cotton fabric impregnated with Proban.
Note:	Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.
	- In storage areas: Long sleeved clothing
Note:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Die beim Umgang mit Chemikalien üblichen Vorsichtsmaßnahmen sind zu beachten.Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.
Engineering measures	Provide sufficient air exchange and/or exhaust in work rooms.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	weakly pungent
Odour threshold	no data available
pH	13 - 14 (10 %, aqueous solution)
Melting point [°C] / Freezing point [°C]	approx. 270 °C

Boiling point [°C]	no data available
Flash point [°C]	Not combustible.
Evaporation rate [kg/(s*m²)]	no data available
Flammability (solid, gas)	does not ignite
Risk of explosion.	Not explosive
Vapour pressure [kPa]	no data available
Density [g/cm³]	no data available
Water solubility [g/l]	soluble
Solubility [g/l]	no data available
Partition coefficient n-octanol /water (log P O/W)	not applicable. Mixture of inorganic salts.
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	> 650 °C
Viscosity, dynamic [kg/(m*s)]	no data available
Oxidising properties	oxidizing

9.2 Other information

Bulk density [kg/m³]	1,25 - 1,55 kg/dm³
Other data	hygroscopic

SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition	Thermal decomposition starts at temperatures above 650 °C.

10.2 Chemical stability

Chemical stability	Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	During contact with acids or overheating the product (T > 650°C; e.g. in case of fire) nitrous gases could develop. Oxidizing: Risk of fire if brought into contact with slightly oxidizable (combustible) substances, e.g. organic compounds, soot. Release of oxygen, exothermic reaction. Contact with metal (aluminium, magnesium, zinc) causes development of hydrogen.

10.4 Conditions to avoid

Conditions to avoid	humid air and water Decomposition temperature: > 650 °C

10.5 Incompatible materials

Materials to avoid	Light metals, Acids, Reducing agents, Ammonium salts, Amines, Cyanides

10.6 Hazardous decomposition products

Hazardous decomposition products	nitrogen oxides (NOx), Hydrogen, by reaction with metals.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

Lithium carbonate

Oral toxicity [mg/kg]	Test criterion	Test species	Exposure duration	Source
525	LD50	rat	48 h	7

Source: 7 - external safety data sheet

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Measuring method	Source
>2000	LD50	rat	-	OECD 402	7

Source: 7 - external safety data sheet

Inhalative toxicity [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Sodium carbonate

Oral toxicity [mg/kg]	Test criterion	Test species	Exposure duration	Source
2800	LD50	rat	-	7

Source: 7 - external safety data sheet

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Source
>2000	LD50	rabbit	-	7

Source: 7 - external safety data sheet

Inhalative toxicity [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Potassium carbonate

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
>2000	LD50	rat	OECD 401	151

Source: 151 - ECHA

Dermal toxicity [mg/kg]	Value	Test criterion	Test species	Duration	Source
-	>2000	LD50	rabbit	24 h	151

Source: 151 - ECHA

Inhalative toxicity [mg/l]	Value	Test criterion	Test species	Duration	Remarks	Source
-	>4,96 ± 1,14	LC50	rat	4,5 h	dust	151

Source: 151 - ECHA

Sodium nitrate

Oral toxicity [mg/kg]	Test criterion	Test species	Exposure duration	Measuring method	Source
3430	LD50	rat	-	OECD 401	7

Source: 7 - external safety data sheet

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Measuring method	Source
>5000	LD50	rat	-	OECD 402	7

Source: 7 - external safety data sheet

Inhalative toxicity [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Sodium hydroxide

Oral toxicity [mg/kg]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Dermal toxicity [mg/kg]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Inhalative toxicity [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Subacute, subchronic, chronic toxicity	no data available
Sensitization	no data available. No known effect.
Carcinogenic effects	Contains no ingredient listed as a carcinogen.
Mutagenicity	Contains no ingredient listed as a mutagen.
Reproduction toxicity	Contains no ingredient listed as toxic to reproduction.
Symptoms	- Eye contact:
Symptoms:	Lachrymation, Pain, Redness, Swelling of tissue, Corneal opacity, Blindness.
	- Inhalation:
Symptoms:	Cough, Shortness of breath, Lachrymation, Salivation, Pain, Redness, Swelling of tissue, Swollen corrosion of the mucous membranes, Nose bleeding, Lung oedema.
	- Skin contact:
Symptoms:	Redness, Swelling of tissue, Blistering, Pain. Causes poorly healing wounds.
	- Ingestion:
Symptoms:	Salivation, Redness, Pain, Gastrointestinal discomfort, Stomach perforation, Bloody vomiting, Circulatory collapse.

Caustic effect	The product causes burns of eyes, skin and mucous membranes.
Dermal absorption data	no data available

Specific target organ toxicity (single exposure) [mg/kg]

Specific effects
no data available

Specific target organ toxicity (repeated exposure) [mg/kg]

Specific effects
no data available

Aspiration hazard	no data available

11.2 Additional information

Experience in practice	Alkali hydroxide and aqueous solutions thereof strongly irritate and burn skin and mucous membranes. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

Lithium carbonate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
30,3	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	OECD 203	7

Source: 7 - external safety data sheet

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
33	EC50	Daphnia magna (Big water flea)	48 h	OECD 202	7

Source: 7 - external safety data sheet

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
>400	ErC50	Desmodesmus subspicatus.	72 h	OECD 201	7

Source: 7 - external safety data sheet

NOEC (fish) [mg/l]	Test species	Exposure duration	Source
1,05	Pimephales promelas (fathead minnow)	26 d	7

Source: 7 - external safety data sheet

NOEC (daphnia) [mg/l]	Test species	Exposure duration	Measuring method	Source
3,5	Daphnia magna (Big water flea)	21 d	OECD 211	7

Source: 7 - external safety data sheet

NOEC (algae) [mg/l]	Test species	Exposure duration	Measuring method	Source
50	Desmodesmus subspicatus.	72 h	OECD 201	7

Source: 7 - external safety data sheet

Sodium carbonate

Toxicity to fish [mg/l]	Test criterion	Test species	Duration of dosage	Source
300	LC50	Lepomis macrochirus (Bluegill)	96 h	152

Source: 152 - IUCLID

Toxicity to daphnia [mg/l]	Highest measured value	Test criterion	Test species	Exposure duration	Source
200	227	EC50	Ceriodaphnia spec	48 h	7

Source: 7 - external safety data sheet

Toxicity to algae [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (fish) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (daphnia) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (algae) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Potassium carbonate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
230	LC50	Lepomis macrochirus (Bluegill)	96 h	151

Source: 151 - ECHA

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
200	EC50	Daphnia magna (Big water flea)	48 h	151

Source: 151 - ECHA

Toxicity to algae [mg/l]	Value	Source
-	No data available	151

Source: 151 - ECHA

NOEC (fish) [mg/l]	Value	Source
-	No data available	151

Source: 151 - ECHA

NOEC (daphnia) [mg/l]	Value	Source
-	No data available	151

Source: 151 - ECHA

NOEC (algae) [mg/l]	Value	Source
-	No data available	151

Source: 151 - ECHA

Sodium nitrate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
7950	LC50	Oncorhynchus tschawytscha	96 h	7

Source: 7 - external safety data sheet

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
665	EC50	Daphnia magna (Big water flea)	48 h	152

Source: 152 - IUCLID

Toxicity to algae [mg/l]	Test criterion	Exposure duration	Source
>1700	EC50	10 d	7

Source: 7 - external safety data sheet

NOEC (fish) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (daphnia) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (algae) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

Sodium hydroxide

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
45,4	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	7

Source: 7 - external safety data sheet

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
>100	EC50	Daphnia magna (Big water flea)	48 h	7

Source: 7 - external safety data sheet

Toxicity to algae [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (fish) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (daphnia) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

NOEC (algae) [mg/l]	Value	Source
-	No data available	7

Source: 7 - external safety data sheet

12.2 Persistence and degradability

Biodegradability: Sodium hydroxide (NaOH): Abiotic degradation

Remarks: external safety data sheet

No data is available on the product itself.

12.3 Bioaccumulative potential

Bioaccumulation: no data available

12.4 Mobility in soil

Distribution in the environment: Water, Soil: Water solubility

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination: not applicable.
Mixture of inorganic salts.

12.6 Other adverse effects

Environmental hazards: Alkali hydroxides will be ionized in water under increasing pH-value. Alkali hydroxides are harmful for aquatic organisms due to the alkaline pH value. The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Fish: LC50 >500 mg/L.

AOX-hints: The product does not contain organically bound halogen (AOX) as per formulation.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
The following Waste Codes are only suggestions:

Waste Code: 110198 - other wastes containing dangerous substances

Uncleaned empty packaging: 150110 - packaging containing residues of or contaminated by dangerous substances

Suitable cleaning agents	Clean container with water. Retain and dispose of contaminated wash water. Dispose of in accordance with local regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	*Air transport ICAO/IATA
UN-No	3084	3084	3084
Description of the goods	CORROSIVE SOLID, OXIDIZING, N.O.S.		
Proper shipping name		CORROSIVE SOLID, OXIDIZING, N.O.S.	Corrosive solid, oxidizing, n.o.s.
Danger releasing substance	Sodium hydroxide, Sodium nitrate	Sodium hydroxide, Sodium nitrate	Sodium hydroxide, Sodium nitrate
Class	8	8	8
Packaging group	II	II	II
Labels	8, 5.1 	8, 5.1 	8, 5.1 
Environmental hazards	not hazardous	0: Non-marine pollutant	
Tunnel restriction code	E		
Category	2		
Risk No.	85		
Classification Code	CO2		
Stowage category		C	
EmS		F-A;S-Q	
Remarks		"separated from" acids; IMDG-Code segregation group 18 - alkalis	

SECTION 15: Regulatory information

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

Additional regulations	Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2 Chemical safety assessment

Safety assessment	none

SECTION 16: Other information

Relevant R-phrases	R22: Harmful if swallowed. R35: Causes severe burns. R36: Irritating to eyes. R36/37/38: Irritating to eyes, respiratory system and skin. R8: Contact with combustible material may cause fire.
Relevant H-phrases	H272: May intensify fire; oxidiser. H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
Wording of the hazard classes	Ox. Sol.: Oxidising solid Met. Corr.: Substance or mixture corrosive to metals Skin Corr.: Skin corrosion

Acute Tox.: Acute toxicity
Eye Irrit.: Serious eye irritation
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure

*Modifications since last version

SECTION 2: Hazards identification
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

Abbreviations and acronyms

Sodium hydroxide (NaOH)
Derived No Effect Level (DNEL)
Predicted No Effect Concentration (PNEC)
NOEC (no observed effect concentration) (NOEC)
Adsorbed organic bound halogens (AOX)
Water hazard class (WGK)
European Waste Catalogue (EAK)
Volatile organic compounds (VOC) content

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification	Evaluation
Ox. Sol. 2; H272	Producer
Met. Corr. 1; H290	Producer
Skin Corr. 1A; H314	Calculated

Recommended restrictions

None known.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.