Safety data sheet

according to Regulation (EC) No. 1907/2006

AIP-AWAY / Aip Ex

Version number: GHS 1.0 Date of creation: 17.11.2022

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

1.1 Product identifier

Name of the substance	Sodium hydroxide solution 20%
Trade name	**AIP-AWAY**
Registration number (REACH)	01-2119457892-27-xxx
EINECS number	215-185-5
CAS number	1310-73-2
UFI CODE	2V00-70PC-F00H-FFGJ
Other designations	
Product number	AIP50

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

Relevant identified uses	Uses by consumers Containment of glass roses in marine aquariums

1.3 Details of the supplier of the safety data sheet

ARKA Biotechnologie GmbH
Mühllach 53-55 90552
Röthenbach Germany

Phone: +49 (0)911 5698610 00
Fax: +49 (0)911 5698610 29
e-mail (knowledgeable person) info@arka-biotech.de

1.4 Emergency number

Emergency information service	Poison control center Munich Available by phone 24h / 7 days a week Phone: +49 (0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Hazard class	Categorie	Hazard class and category	Hazard warning
Corrosive to metals Severe skin burns / serious eye damage	Cat. 1 Cat. 1A	Met. Corr. 1 Skin Corr. 1A	H290 H314

Notes

Full text of H-phrases in SECTION 16.

2.2 Labeling elements

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

Signal word **Danger**

Pictograms

GHS05

Hazard warnings

H290 May be corrosive to metals.
H314Causes severe skin burns and eye damage.

Safety instructions Safety instructions

P102 Keep out of the reach of children.
P260 Do not breathe dust/fume/gas/mist/vapor/spray.

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

P303+P361+P353In case of CONTACT WITH SKIN (or hair): Remove all contaminated clothing Remove immediately. Wash skin with water (or shower).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor. P501Dispose of contents/container in accordance with local regulations.

Hazardous substances for labeling **Sodium** hydroxide

2.3 Other dangers

No additional information is available.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixture

Substance name	Sodium hydroxide
Index no.	not available
Registration number (REACH)	01-2119457892-27-xxx
EINECS number	215-185-5
CAS number	1310-73-2
Content of the mixture	20%

SECTION 4: First aid measures

4.1 Description of first aid measures General notes

Remove soiled, soaked clothing immediately. If symptoms occur or in case of doubt, seek medical advice. If unconscious, place in recovery position and do not administer anything by mouth.

After inhalation

Move the affected person to fresh air and keep them still. If breathing is irregular/stopping breathing, give artificial respiration. Call a doctor immediately.

After contact with the skin

In case of contact with skin, wash immediately with plenty of water. Consult a doctor immediately.

After contact with the eyes

Keep eyelids open and rinse thoroughly with clean, running water for at least 15 minutes. Remove any contact lenses if possible. Consult a doctor immediately.

After ingestion by swallowing

Rinse out mouth and drink plenty of water. Do not induce vomiting. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes chemical burns. Risk of gastric perforation; risk of pulmonary edema.

4.3 Information on immediate medical assistance or special treatment

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Carbon dioxide, extinguishing powder, water spray, foam um, product itself does not burn; adapt extinguishing measures to the surrounding fire.

Unsuitable extinguishing agents

Full water jet.

5.2 Special hazards arising from the substance or mixture

Reaction with metals to form hydrogen.

Hazardous combustion products

Formation of hazardous gases possible in case of fire.

5.3 Instructions for firefighting

Fight the fire with the usual precautions from an appropriate distance. Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by maintaining a safe distance or wearing suitable protective clothing. Collect contaminated extinguishing water separately.
Do not allow extinguishing water to enter sewers and bodies of water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use respiratory protection in case of exposure to vapors/dust/aerosol. Avoid contact with skin, eyes and clothing. Move people to safety. Particular risk of slipping due to leaked/spilled product.

6.2 Environmental protection measures

Do not allow to enter drains or waterways. Do not allow to enter the subsoil/soil. In case of penetration into soil, water or sewage system, inform the responsible authority.

6.3 Methods and material for retention and cleaning

Absorb with liquid-binding material (e.g. sand, sawdust, universal binding agent, diatomaceous earth). Needle the absorbed material according to section 13 "Disposal". Rinse off residues with water.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Recommendations

Notes on general hygiene in the workplace

Wash hands after use. Do not eat, drink or smoke in areas where work is being carried out. Remove contaminated clothing and protective equipment before entering areas where food is eaten. Do not store food and drinks together with chemicals. Do not use containers for chemicals that are normally intended for holding food. Keep away from food, drinks and animal feed. Do not inhale gases/vapors/aerosols.

7.2 Conditions for safe storage, taking into account incompatibilities

Keep container tightly closed. Store in a dry place.

Incompatible substances or mixtures

Do not store together with: Acids, halogenated hydrocarbons
Storage class according to TRGS 510 8B Non-combustible corrosive hazardous substances
Keep container tightly closed in a well-ventilated place.

7.3 Specific end uses

No information available.

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

National limit values

Derived No/Minimal Effect Levels (DNEL/DMEL)

Sodium hydroxide

DNEL Conditions Concentration - consumer 1.0 - long-term mg/m³ - inhalation - local effect

Exposure controls and monitoring

8.2.1 General protective and hygiene measures

Keep away from food, drink and animal feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

8.2.2 Individual protective measures (personal protective equipment)

Eye/face protection

Wear safety goggles/face protection.

Skin protection

Wear protective clothing. Remove contaminated clothing and wash before reuse.

Hand protection according to DIN EN 374

Wear protective gloves.

Type of material

Nitrile	>= 0.35mm
PVC	>= 0.5mm Poly-chloroprene>= 0.5mm
Butyl rubber	>= 0.5mm
Fluororubber>=	0.4mm

Breakthrough time of the glove material

>=480 minutes

Other protective measures

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. Wash hands thoroughly after use.

Respiratory protection

Respiratory protection in case of aerosol or mist formation. Short-term filtering device, filter P2

8.2.3 Limiting and monitoring environmental exposure

Prevent penetration into the canal lization or into surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Physical state	liquid
Color	clear / yellowish cloudy
Odor	Mild odor

Other physical and chemical parameters

pH value	> 14.0 at 20°C
Melting point/freezing point	approx. -27°C
Initial boiling point and boiling range	approx. 107.8°C
Flash point	not available
Evaporation ratenot	determined
Flammability (solid, gaseous)	not available
Explosion limits of dust/air mixtures	not determined
Vapor pressure	approx. 22.7 at 25°C
Density	1.219 at 20°C
Bulk density	not applicable

Solubility(ies)	
Water solubility	Fully miscible
Partition coefficient	
n-octanol/water (log KOW)	no information available not
Auto-ignition temperature	self-igniting
Viscosity	liquid
Explosive properties	none
Oxidizing properties	not available

9.2 Other information

No further information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See possibility of hazardous reactions.

10.2 Chemical stability

The product is stable under normal storage conditions and normal use.

10.3 Possibility of hazardous reactions

Reactions with metals with formation of hydrogen. Reactions with organic substances. Violent reactions with acids.

10.4 Conditions to avoid

Protect from heat and direct sunlight. Protect from frost.

10.5 Incompatible materials

Acids, metals, ammonia, halogenated hydrocarbons, oxidizing agents.

10.6 Hazardous decomposition products

Hydrogen. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral, dermal and inhalation toxicity

Sodium hydroxide

Toxicological data are not available.

Corrosive/irritant effect on the skin

Rating: highly corrosive

Serious eye damage/eye irritation

Assessment: highly corrosive. Danger of serious eye damage.

Sensitization of the respiratory tract or skin

No sensitizing effect known.

Summary of the assessment of CMR properties

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

Specific target organ toxicity (STOT)

Not available.

Aspiration hazard

No information available.

Other information

Causes severe burns. Strong corrosive effect in mouth and throat, as well as danger of perforation of the esophagus and stomach. Causes serious eye damage. Inhalation may cause irritation of the respiratory tract.

SECTION 12: Environmental information

12.1 Toxicity

Water hazard class (WGK; Germany): 1 (Self-assessment): slightly hazardous to

water.

Do not allow undiluted product or large quantities of it to enter the sewage system.

12.2 Bioaccumulative potential

Not applicable.

12.3 Mobility in soil

No data is available.

12.4 Results of the PBT and vPvB assessment

Accumulation in organisms is not expected. The substance does not meet the criteria for PBT properties. The substance does not meet the criteria for vPvB properties.

12.5 Other harmful effects

Harmful effect due to pH shift.

SECTION 13: Disposal instructions

13.1 Waste treatment processes

Product residues must be disposed of in accordance with the Waste Directive 2008/98/EC and national and regional regulations .

Information relevant for waste treatment

Store only in the original container.

Information relevant for disposal via wastewater

Do not allow to enter drains.

Waste treatment of containers/packaging

Completely emptied packaging can be recycled.
Contaminated packaging must be treated in the same way as the substance.

Notes

Please observe the relevant national or regional regulations. Waste must be separated in such a way that it can be treated separately by the municipal or national waste disposal facilities.

SECTION 14: Transport information

14.1	**UN number**	1824
14.2	**UN proper shipping name**	SODIUM HYDROXIDE SOLUTION
14.3	**Transport hazard classes** Class	8
14.4	**Packaging group**	II
14.5	**Environmental hazards**	-

14.6 Special precautions for the user

No information available.

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

No information available.

SECTION 15: Legislation

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

Water hazard class

Water hazard class WGK 1

VOC content according to Directive 2010/75/EU

VOC (EU) 0%

SVHC

The product does not contain any substances of very high concern (SVHC).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of the abbreviations used
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Occupational exposure limit
CAS	Chemical Abstracts Service (database of chemical compounds and their unique key, the CAS Registry Number)
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction (carcinogenic, mutagenic or toxic for reproduction)
DFG	German Research Foundation List of MAK and BAT values, Senate Commission for the Examination of Health Hazardous Substances, Wiley-VCH, Weinheim
DMEL	Derived minimal effect level (derived exposure level with minimal impairment)
DNEL	Derived No-Effect Level (derived exposure level without impairment)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
Index no.	The index number is the identification code given in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
KZW	Short-term value
LGK	Storage class according to TRGS 510, Germany
MARPOL	International Convention for the Prevention of Pollution from Ships (abbreviation of "Marine Pollu- tant")
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration (estimated no-effect concentration)
ppm	Parts per million (parts per million)
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (Registration, Evaluation, Authorization and Restriction of Chemicals)
SMW	Shift average
TRGS	Technical Rules for Hazardous Substances (Germany)
TRGS 900	Occupational exposure limits (TRGS 900)
VbF	Ordinance on flammable liquids (Austria)
vPvB	Very Persistent and very Bioaccumulative (very persistent and very bioaccumulative)

Important literature and data sources

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

List of relevant phrases (code and wording as indicated in chapters 2 and 3)

Code	Text
H290 H314	Can be corrosive to metals Causes severe skin burns and eye damage

Disclaimer

This information is based on our current knowledge. This SDS has been compiled exclusively for this product and is intended solely for this product.