

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Product form : Mixture
 Product name : Wash Alu +

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

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

G-Works bvba
 Duivelshoekstraat 62
 8800 Roeselare - belgium
 T 0492/69 79 89

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245
CANADA	CANUTEC		(613) 996-6666
FINLAND	Poison Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
Ísland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavik	+354 543 22 22
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
SWITZERLAND	Centre Suisse d'Information Toxicologique Swiss Toxicological Information Centre	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
USA	American Association of Poison Control Centers		1-800-222-1222
Worldwide	www.who.int/ipcs/poisons/centre/directory/en		
Ελλάδα	Poisons Information Centre Children's Hospital "Agliaia. Kyriakou"	11527 Athens	+30 10 779 3777

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1B H314

Full text of H-phrases: 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) :



GHS05

Signal word (CLP) : Danger
 Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
 Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P260 - Do not breathe spray
 P271 - Use only outdoors or in a well-ventilated area

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P303 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment is urgent.

P301+P330+P331+P310+P321 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Specific treatment.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% w/w	Classification according to Directive 67/548/EEC
Potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 19-002-00-8 (REACH-no) 01-2119487136-33	5 - 15	Xn; R22 C; R35
Potassiumsilicate	(CAS No) 1312-76-1 (EC no) 215-199-1 (REACH-no) 01-2119456888-17	5 - 15	Xi; R36 Xi; R37 Xi; R38
Name	Product identifier	% w/w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 19-002-00-8 (REACH-no) 01-2119487136-33	5 - 15	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Potassiumsilicate	(CAS No) 1312-76-1 (EC no) 215-199-1 (REACH-no) 01-2119456888-17	5 - 15	Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Seek medical advice immediately.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical advice.

First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting because of corrosive effects. Take to hospital.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapours.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Other information : Exercise caution when fighting any chemical fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spills and put it into appropriated container.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure prompt removal from eyes, skin and clothing. Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Hygiene measures : Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)		
France	VLE (mg/m³)	2 mg/m³
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³
Spain	VLA-EC (mg/m³)	2 mg/m³
Switzerland	VME (mg/m³)	2 mg/m³
Switzerland	Remark (CH)	(einatembarer Staub)
United Kingdom	WEL STEL (mg/m³)	2 mg/m³
Finland	HTP-arvo (15 min)	2 mg/m³
Australia	STEL (mg/m³)	2 mg/m³

8.2. Exposure controls

Hand protection : Wear suitable gloves resistant to chemical penetration.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Polyvinylchloride (PVC)	6 (>480 min)	0.5	2 (< 1.5)	EN 374

Eye protection : Chemical goggles or face shield with safety glasses. Field of use: B. Mechanical Strength: 3

Type	Use	Characteristics	Standard
Safety goggles, Safety glasses	Droplet	clear, Plastic	EN 166

Skin and body protection : Wear suitable protective clothing.

Type	Standard
	EN 943-2

Respiratory protection : Suitable respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment.

Device	Filter type	Condition	Standard
Dust mask	Filter P (white)	dust protection, moist condition, mist formation	EN 136, EN 140



Other information : When using do not eat, drink or smoke. Provide local exhaust or general room ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to light yellow.
Odour	: No data available
Odour threshold	: No data available
pH	: 1% 11,5
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: -5 °C
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,22 kg/l
Solubility	: Water: 100 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium hydroxide (1310-58-3)	
ATE CLP (oral)	500,000 mg/kg
Skin corrosion/irritation	: Causes burns pH: 1% 11,5
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 1% 11,5
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Biodegradable.

12.2. Persistence and degradability

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Persistence and degradability	biodegradable.
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 3266

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Transport document description (ADR) : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide), 8, III, (E)

14.3. Transport hazard class(es)

Class (ADR) : 8

14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Other information : Clean up even minor leaks or spills if possible without unnecessary risk.

14.6. Special precautions for user

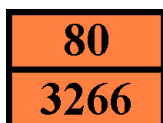
Special transport precautions : The driver shall not attempt to deal with any fire of the load. No naked lights. No smoking. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C5

Orange plates :



Tunnel restriction code (ADR) : E

LQ : LQ07

Excepted quantities (ADR) : E1

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14.6.2. Transport by sea

Ship Safety Act	: Corrosive substances(Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Port Regulation Law	: Hazardous materials/Corrosive substance (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
MFAG-No	: 154

14.6.3. Air transport

Instruction "cargo" (ICAO)	: Packaging instructions cargo :820
Instruction "passenger" (ICAO)	: Packaging instructions passenger:818
Civil Aeronautics Law	: Corrosive substances(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

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

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

Contains no substances with Annex XVII restrictions
Wash Alu + is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

Water hazard class (WGK) : 1 - slightly hazardous to water

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
R22	Harmful if swallowed
R35	Causes severe burns
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
C	Corrosive
Xi	Irritant
Xn	Harmful

SDS EU CLP DPD

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