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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/02/2017

Reviewed on 11/02/2017

1 Identification

- · Product Identifier
- · Trade name: DAC
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description Cleaning Compound
- · Details of the Supplier of the Safety Data Sheet:
- *Manufacturer/Supplier:* National Chemicals, Inc. PO Box 506, Lewiston, MN 55952 Ph: 800-533- 0027 / 507-454- 5640 info@NationalChemicals.com
- · Emergency telephone number: CHEMTREC 1-800-424-9300

2 Hazard(s) Identification

· Classification of the substance or mixture:

GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements:
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:



· Signal word: Danger

- *Hazard-determining components of labeling:* Potassium Hydroxide Sodium Hydroxide
- · Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· Precautionary statements:

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.



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P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	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/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Unknown acute to	oxicity:
	howledge of known, established toxicological or ecotoxicological values.
3 % of the mixture	consists of component(s) of unknown toxicity.
 Classification sys NFPA ratings (sca 	atem: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme ale 0 - 4)
Healt	
Fire =	
React	tivity = 0
· HMIS-ratings (sca	nle 0 - 4)
HEALTH 3 Hea	lth = 3
FIRE 0 Fire	
REACTIVITY 0 Phys	

· Hazard(s) not otherwise classified (HNOC): None known

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with non-hazardous additions.

 Dangerous Compon 	ients:	
	Potassium Hydroxide 🕎 Skin Corr. 1A, H314; 🕚 Acute Tox. 4, H302	15-35%
CAS: 1310-73-2	Sodium Hydroxide Skin Corr. 1A, H314; 🐼 Acute Tox. 4, H302	15-35%
CAS: 6834-92-0	Disodium Metasilicate	≤2.5%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures:

· General information: Immediately remove any clothing soiled by the product.



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· After inhalation:

Remove to fresh air.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

If easy to do so, remove contact lenses if worn.

• After swallowing:

Do not induce vomiting without medical advice.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-Fighting Measures

- Extinguishing media:
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters:
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information. • Protective Action Criteria for Chemicals

Protective Action Criteria for Chemicals PAC-1

FAC-1.	
1310-58-3 Potassium Hydroxide	0.18 mg/m ³
1310-73-2 Sodium Hydroxide	0.5 mg/m³
6834-92-0 Disodium Metasilicate	3.8 mg/m ³
· PAC-2:	
1310-58-3 Potassium Hydroxide	2 mg/m ³
1310-73-2 Sodium Hydroxide	5 mg/m³
	(Contd. on page 4



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6834-92-0	Disodium Metasilicate	42 mg/m ³
· PAC-3:		
1310-58-3	Potassium Hydroxide	54 mg/m³
1310-73-2	Sodium Hydroxide	50 mg/m ³
6834-92-0	Disodium Metasilicate	250 mg/m³

7 Handling and Storage

· Handling

• Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: No further data; see section 7.

- · Control parameters:
- Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

1310-58-3 Potassium Hydroxide

- REL Ceiling limit value: 2 mg/m³
- TLV Ceiling limit value: 2 mg/m³

1310-73-2 Sodium Hydroxide

- PEL Long-term value: 2 mg/m³
- REL Ceiling limit value: 2 mg/m³
- TLV Ceiling limit value: 2 mg/m³
- · Additional information: The lists that were valid during the creation of this SDS were used as basis.

• Exposure controls:

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.



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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material based on penetration times, rates of diffusion and degradation.

- Material of gloves:
- Solvent Resistant

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material: Not applicable.
- Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form: Liquid Color: Clear · Odor: Characterastic · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Not determined. Boiling point/Boiling range: ≥100 °C (≥212 °F) · Flash point: None · Flammability (solid, gaseous): Not applicable. Not applicable · Ignition temperature: · Decomposition temperature: Not determined. · Auto igniting: Product is not self-igniting. • Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined.



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Upper:	Not determined.
· Vapor pressure @ 20 °C (68 °F):	≤23 hPa (≤17.3 mm Hg)
[.] Density: Relative density: Vapor density: Evaporation rate:	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with: Water: 	Fully Soluble
· Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	

Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information:	No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Exposure to moisture or moist air. Temperatures above 150°F (65 °C).
- · Incompatible materials: Acids. Bases. Water. Lime.
- · Hazardous decomposition products: At high temperature may liberate toxic gases.

11 Toxicological Information

· Information on toxicological effects:

· Acute toxicity:

· LD/LC50 values that are relevant for classification:		
1310-58-3	Potassium Hyd	droxide
Oral	LD50	273 mg/kg (Rat)
Inhalative	LC50/96 hours	80 mg/l (Daphnia)
1310-73-2 Sodium Hydroxide		
Oral	LD50	2,000 mg/kg (Rat)
6834-92-0 Disodium Metasilicate		
Oral	LD50	1,280 mg/kg (Rat)
• • •	LD50	1,280 mg/kg (Rat)

· Primary irritant effect:

- · On the skin: Strong caustic effect on skin and mucous membranes.
- On the eye:

Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive



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Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

1310-73-2 Sodium Hydroxide

EC50 40 mg/I (Daphnia)

6834-92-0 Disodium Metasilicate

EC50 247 mg/l (Water flea)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- Danger to uninking water if even small quantities leak into
- Results of PBT and vPvB assessment:
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

· Waste treatment methods:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

14 Transport Information

- · UN-Number:
- · DOT, ADR/ADN, IMDG, IATA
- UN proper shipping name:
- ·DOT
- · ADR/ADN
- · IMDG, IATA

UN3266

Corrosive liquid, basic, inorganic, n.o.s. UN3266 Corrosive liquid, basic, inorganic, n.o.s. CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.





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nde name: DAC	
Transport hazard class(es): Class: Label:	8 Corrosive substances 8
ADR/ADN	
Class: Label:	8 (C5) Corrosive substances
IMDG, IATA	0
Class:	8 Corrosive substances 8
Label: Packing group:	8
DOT, ADR/ADN, IMDG, IATA	
Environmental hazards: Special precautions for user:	Not applicable. Warning: Corrosive substances
Danger code (Kemler):	80
EMŠ Number:	F-A,S-B
Segregation groups:	Alkalis
Transport in bulk according to Annex MARPOL73/78 and the IBC Code:	Not applicable.
Transport/Additional information:	
DOT Overtity limitational	On negeonger eizereft/reil: 5 l
Quantity limitations:	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR/ADN	
Excepted quantities (EQ):	Code: E1 Maximum pat quantity par inpar packaging: 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ):	5L Code: E1
Excepted quantities (EQ):	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3266 CORROSIVE LIQUID, BASIČ, INORGANIC, N.O.S., 8



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Section 355 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. TSCA (Toxic Substances Control Act): 1310-83-3 Potassium Hydroxide 1310-73-2 Sodium Hydroxide 527-07-1 Sodium Gluconate 6834-92-0 Disodium Metasilicate 7732-18-5 Water, distilled water, deionized water TSCA new (21st Century Act) (Substances not listed) California Proposition 65: Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed. Mew Jersey Right-to-Know List: 1310-58-3 Potassium Hydroxide 1310-73-2 Sodium Hydr	Safety, health and environmental regulations/legislation specific for the s SARA (Superfund Amendments and Reauthorization):	substance or mixture:
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· EPA (Environmental Protection Agency):	Carcinogenic categories:	
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	TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed.	



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/02/2017

Reviewed on 11/02/2017

Trade name: DAC

- NIOSH-Ca (National Institute for Occupational Safety and Health):
- None of the ingredients are listed.
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms:



- · Signal word: Danger
- · Hazard-determining components of labeling:
- Potassium Hydroxide
- Sodium Hydroxide
- · Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Dressentie news statements.

Precautionary Sta	itements:
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P304+P340	IF INHALED: Remove person to fresh air and keep 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/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 11/02/2017 / 4

Abbreviations and acronyms: ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/02/2017

Reviewed on 11/02/2017

Trade name: DAC

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106