

Page 1/10

Printing date 04/19/2017

Reviewed on 04/19/2017

1 Identification

· Product identifier

· Trade name: SAF-T-ALK POWDER

· Article number: GCP5A

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:
 ZEE COMPANY, INC.
 4146 South Creek Road
 Chattanooga, TN 37406

• Information department: Technical Services: 423-698-1401

- Emergency telephone number: CHEMTREC: 800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



Flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidizer.



Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS03 GHS05 GHS07

- · Signal word Danger
- Hazard-determining components of labeling: Sodium carbonate peroxyhydrate

(Contd. on page 2)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

(Contd. of page 1)

disodium metasilicate

tetrasodium ethylenediaminetetraacetate

· Hazard statements

May intensify fire; oxidizer.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

· Precautionary statements

Take any precaution to avoid mixing with combustibles.

Keep away from heat.

Do not breathe dusts or mists.

Keep/Store away from clothing/combustible materials.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting.

In case of fire: Use for extinction: CO2, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2

Fire = 3

Reactivity = 0

The substance possesses oxidizing properties.

HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

		(Contd. of page 2)
· Dangerous	components:	
497-19-8	sodium carbonate	35-45%
15630-89-4	Sodium carbonate peroxyhydrate	25-35%
6834-92-0	disodium metasilicate	2.5-10%
64-02-8	tetrasodium ethylenediaminetetraacetate	2.5-10%

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: 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: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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

· PAC-1:		
497-19-8	sodium carbonate	7.6 mg/m3
6834-92-0	disodium metasilicate	3.8 mg/m3
64-02-8	tetrasodium ethylenediaminetetraacetate	75 mg/m3
9003-11-6	Block copolymer of polyethylene and polypropylene glycol	6.9 mg/m3
		(Contd. on page 4)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

		(Contd. of page 3
· PAC-2:		
497-19-8	sodium carbonate	83 mg/m3
6834-92-0	disodium metasilicate	42 mg/m3
64-02-8	tetrasodium ethylenediaminetetraacetate	830 mg/m3
9003-11-6	Block copolymer of polyethylene and polypropylene glycol	76 mg/m3
· PAC-3:		· · · · · · · · · · · · · · · · · · ·
497-19-8	sodium carbonate	500 mg/m3
6834-92-0	disodium metasilicate	250 mg/m3
64-02-8	tetrasodium ethylenediaminetetraacetate	5,000 mg/m3
9003-11-6	Block copolymer of polyethylene and polypropylene glycol	460 mg/m3

7 Handling and storage

- · Handling:
- · Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: Protect from heat.
- · 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.

Protect from heat and direct sunlight.

· 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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

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.

(Contd. on page 5)

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

· Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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 can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Upper:

Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties		
 General Information Appearance: 		
Form:	Granulate	
Color:	White	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Contact with combustible material may cause fire.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower:	Not determined.	

Not determined.

(Contd. on page 6)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

		(Contd. of page
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Soluble.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	41.4 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

6834-92-0 disodium metasilicate

Oral LD50 1280 mg/kg (rat)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Harmful Irritant

(Contd. on page 7)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

(Contd. of page 6)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 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.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, IMDG, IATA	UN1479
UN proper shipping nameDOT, IMDGIATA	Oxidizing solid, n.o.s. OXIDIZING SOLID, N.O.S.

(Contd. on page 8)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

(Contd. of page 7) Transport hazard class(es) · DOT · Class 5.1 Oxidizing substances · Label 5.1 · Class 5.1 Oxidizing substances · Label 5.1 · IMDG, IATA · Class 5.1 Oxidizing substances · Label 5.1 · Packing group · DOT, IMDG, IATA Ш · Environmental hazards: Not applicable. · Special precautions for user Warning: Oxidizing substances Danger code (Kemler): 50 · EMS Number: F-A,S-Q Stowage Category · Segregation Code SG38 Stow "separated from" ammonium compounds. SG49 Stow "separated from" cyanides SG60 Stow "separated from" peroxides SG61 Stow "separated from" powdered metals · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: Quantity limitations On passenger aircraft/rail: 5 kg On cargo aircraft only: 25 kg · IMDG Limited quantities (LQ) 1 kg Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g · UN "Model Regulation": UN 1479 OXIDIZING SOLID, N.O.S., 5.1, II

us

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

(Contd. of page 8)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS03 GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Sodium carbonate peroxyhydrate

disodium metasilicate

tetrasodium ethylenediaminetetraacetate

· Hazard statements

May intensify fire; oxidizer.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

· Precautionary statements

Keep out of reach of children.

(Contd. on page 10)

Printing date 04/19/2017 Reviewed on 04/19/2017

Trade name: SAF-T-ALK POWDER

(Contd. of page 9)

Take any precaution to avoid mixing with combustibles.

Keep away from heat.

Do not breathe dusts or mists.

Keep/Store away from clothing/combustible materials.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting.

In case of fire: Use for extinction: CO2, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Contact: Jim Faller/Keith Seyfried
- · Date of preparation / last revision 04/19/2017 / 2
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

VOC: Volatile Organic Compounds (USA, EU)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

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.