

Aldo™ HMS KFG

Version 1.3

SDS Number: CO00001302

Revision Date: 2018.01.22

SECTION 1. IDENTIFICATION

Product name : Aldo™ HMS KFG

Product code : CO00001302

Manufacturer or supplier's details

Company : **Lonza Inc.**
90 Boroline Road
Allendale, NJ 07401
USA
Business Telephone 1-201-316-9200

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

For US only CHEMTREC 1-800-424-9300

Recommended use of the chemical and restrictions on useRecommended use : Food/ feedstuff additives
Emulsifier**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Combustible dust :

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Glycerides, C14-18 mono- and di-	67701-33-1	93.00
Glycerides, C14-18	67701-27-3	5.00
Glycerol	56-81-5	1.00
Fatty acids, C14-18	67701-02-4	1.00

SECTION 4. FIRST AID MEASURES

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If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash with water and soap as a precaution. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: No information available.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Dry chemical
Specific hazards during firefighting	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Heating or fire can release toxic gas.
Further information	: Use water spray to cool unopened containers.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation.
Environmental precautions	
General advice	: Try to prevent the material from entering drains or water courses.
Methods and materials for containment and cleaning up	: Pick up and arrange disposal without creating dust. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the

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atmosphere in sufficient concentration.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : No special precautions required.
- Conditions for safe storage : Keep container tightly closed.
Keep in a well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.
To maintain product quality, do not store in heat or direct sunlight.
- Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerol	56-81-5	PEL (Total dust.)	15 mg/m ³	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m ³	OSHA_TRANS
		TWA (Respirable fraction.)	5 mg/m ³	Z1A
		TWA (Total dust.)	10 mg/m ³	Z1A
		TWA (Mist.)	10 mg/m ³	CAD ON OEL

Appropriate engineering controls**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
- Remarks : Wear protective gloves. Break through time : > 480 min
- Eye protection : Safety glasses
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : beads

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Colour	: white
Odour	: fatty odour
Odour Threshold	: no data available
pH	: no data available
Melting point/range	: 57 - 62 °C
Boiling point/boiling range	: no data available
Flash point	: 204 °C Method: DIN 51376, closed cup
Evaporation rate	: no data available
Flammability (solid, gas)	: May form combustible dust concentrations in air.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: no data available
Density	: 0.970 g/cm ³ (25 °C)
Bulk density	: no data available
Solubility(ies) Water solubility	: dispersible
Partition coefficient: n- octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.

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- Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
- Conditions to avoid : Heat
- Incompatible materials : Strong acids and strong bases
Oxidizing agents
- Hazardous decomposition products : No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

- Information on likely routes of exposure : Eyes
Skin
Inhalation
Ingestion

Acute toxicity

- Acute oral toxicity (LD50) : > 5,000 mg/kg
Species: Rat

Skin corrosion/irritation

- Skin irritation : non irritant
Species: Rabbit

Serious eye damage/eye irritation

- Eye irritation : non irritant
Species: Rabbit

Aspiration toxicity

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

Persistence and degradability

- Biodegradability : Test Type: Respirometer test
Concentration: 53.5 mg/l
Biodegradation: 83 %
Method: OECD Test Guideline 301 F
GLP: no
Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential

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Components:**Glycerol**

Partition coefficient: n-octanol/water : log Pow: -2.6
 log Pow: -1.76
 log Pow: -1.8 (25 °C)

Mobility in soil

no data available

Other adverse effects

Additional ecological information : There is no data available for this product.
 no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of contents/container in accordance with local regulation.
 Contact waste disposal services.
 Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

IATA Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no

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ADR : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

RID : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

DOT : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

TDG : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : Not a controlled Product

EPCRA - Emergency Planning and Community Right-to-Know Act**SARA 311/312 Hazards**

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

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This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations**Massachusetts Right To Know**

Components	CAS-No.
Glycerol	56-81-5

Pennsylvania Right To Know

Components	CAS-No.
Glycerol	56-81-5

New Jersey Right To Know

Components	CAS-No.
Glycerol	56-81-5

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.