

Page 1/10

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 05/14/2025 Reviewed on 05/14/2025

## 1 Identification

· Product identifier

· Trade name: ALKON® CAST HM 80 AL

Other means of identification

· Article number: 667D

· Restrictions Restricted to industrial or professional use.

· Application of the substance / the mixture Refractory Material

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:
HarbisonWalker International
2000 Park Lane Drive, Suite 400
Pittsburgh
Pennsylvania
15275
USA

· Information department:

SDS@thinkHWI.com +33 (0)2 59 60 31 14

Emergency telephone number:

CHEMTREC EMERGENCY

1-800-424-9300

US/CAN ONLY

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Specific target organ toxicity (repeated exposure) 1H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Eye irritation 2A

H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

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

· Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: barium sulphate, natural

(Contd. on page 2)





Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 1)

#### · Hazard statements

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

#### · Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

- · Information pertaining to particular dangers for man and environment:
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 0 Reactivity = 0

### · HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 0

Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

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

· Dangerous components:		
1344-28-1	aluminium oxide	60–80%
65997-16-2	Alumina cement	10–30%
7727-43-7	barium sulphate, natural	10-30%
	(Cont	d. on page 3)





Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 2)

#### · Additional information:

The exact chemical identity and/or percentage (concentration) of the composition has been withheld as a trade secret.

## 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: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

In case of skin contact, wash with soap and water. Get medical attention if irritation persists.

- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult 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

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Mothodo and motorial for containment and alconing up
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Protective Action Criteria for Chemicals

PAC-1:			
1344-28-1 a	luminium oxide		15 mg/m³
7727-43-7 b	arium sulphate, natural		15 mg/m³
69012-64-2 S	ilica-Amorphous Silica fume		45 mg/m³
PAC-2:			
1344-28-1 a	luminium oxide	4	1 ppm
7727-43-7 b	arium sulphate, natural	1	70 mg/m³
69012-64-2 S	ilica-Amorphous Silica fume	5	00 mg/m³
		(Cont	d. on page 4





Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

		(Contd. of page 3)
PAC-3:		
1344-28-1	aluminium oxide	240 ppm
7727-43-7	barium sulphate, natural	990 mg/m³
69012-64-2	Silica-Amorphous Silica fume	3,000 mg/m <sup>3</sup>

#### 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.

## 7 Handling and storage

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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

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

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.

1344	-28-1 aluminium oxide
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction, A4
7727	-43-7 barium sulphate, natural
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV	Long-term value: 5* mg/m³ *inhalable fraction; E
6901	2-64-2 Silica-Amorphous Silica fume
TLV	TLV withdrawn

(Contd. on page 5)



Page 5/10

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 4)

#### · Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs) REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

· Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Appropriate engineering controls No further data; see section 7.
- · 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.

Store protective clothing separately.

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.

#### · Protection of hands:

Protective gloves



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:



Safety glasses

#### Body protection:



Standard industrial clothing is sufficient for room temperature installations (ISO 6942). Do not shake out work clothes. Do not remove dust with compressed air.

US



Page 6/10

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 5)

## 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state Solid · Color: Grey

· Odor: uncharacteristic · Odor threshold: uncharacteristic Not determined.

• Melting point/Melting range: >1,400 °C (>34.500 °F)

· Boiling point/Boiling range: Undetermined. · Flammability: Not determined.

· Explosion limits:

Lower:

Vupper:

Flash point:

Decomposition temperature:

PH-value:

Not determined.

Not applicable.

Not determined.

· Viscosity:

Kinematic: Not applicable.Dynamic: Not applicable.

Solubility in / Miscibility with

Water: Insoluble.
Partition coefficient (n-octanol/water): Not determined.
Vapor pressure: Not applicable.

· Vapor pressure:

Density at 20 °C (68 °F): 2.35 g/cm³ (19.61075 lbs/gal)

Relative density
 Vapor density
 Particle characteristics
 Not determined.
 Not determined.

· Other information · Appearance:

Form: Solid in various forms

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

Solvent content:

· VOC content: 0.00 %

· Change in condition

· Evaporation rate Not applicable.

## 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.

(Contd. on page 7)



Page 7/10

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 6)

· Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- Specific target organ toxicity single exposure

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

- · Aspiration hazard Not applicable
- Additional toxicological information:

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

Irritant

- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

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

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Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 7)

## 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.

14 I	rans	port .	Intol	rmati	on

· UN-Number · DOT, IMDG, IATA	not regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	l <b>of</b> Not applicable.
· Special precautions for user	Not applicable.
· UN "Model Regulation":	not regulated

## 15 Regulatory information

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

No further relevant information available.

Sara

Sara		
· Section 35	5 (extremely hazardous substances):	
None of the	ingredients is listed.	
· Section 31	3 (Specific toxic chemical listings):	
1344-28-1	aluminium oxide	
7727-43-7	barium sulphate, natural	
· TSCA (Tox	ic Substances Control Act):	
1344-28-1	aluminium oxide	ACTIVE
65997-16-2	Alumina cement	ACTIVE
7727-43-7	barium sulphate, natural	ACTIVE

(Contd. on page 9)





Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

		(Contd. of pag
69012-64-2	2 Silica-Amorphous Silica fume	ACTIV
10124-56-	8 Metaphosphoric acid (H6P6O18), hexasodium salt	ACTIV
	inert component	ACTIV
Hazardous	s Air Pollutants	
None of the	e ingredients is listed.	
Propositio	on 65	
Chemicals	s known to cause cancer:	
None of the	e ingredients is listed.	
Chemicals	s known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
Chemicals	s known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
Chemicals	s known to cause developmental toxicity:	
None of the	e ingredients is listed.	
Carcinoge	enic categories	
	ronmental Protection Agency)	
•	barium sulphate, natural	D, CBD(inh), NL(ora
	shold Limit Value)	, - ( ,, · · =(-·
' - A ( 1 1 1 1 6	JIIVIG EIIIIIL VAIGE)	

1344-28-1 aluminium oxide

A4

## · 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





GHS07 GHS08

#### · Signal word Danger

## · Hazard-determining components of labeling:

barium sulphate, natural

### · Hazard statements

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

## Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 10)



Page 10/10

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 05/14/2025 Reviewed on 05/14/2025

Trade name: ALKON® CAST HM 80 AL

(Contd. of page 9)

P501

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 on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Contact: sds.information@calderys.com
- Date of previous version 01/21/2025
- · Version number of previous version: 1
- · Date of preparation 05/14/2025
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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, ÉU) 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

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A

Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1

\* Data compared to the previous version altered.

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