



HUBER | MARTINSWERK

SAFETY DATA SHEET

**Compalox® AN/V-801; Compalox® AN/V-802; Compalox® AN/V; Compalox® AN/V-812;
Compalox® AN/V-813; Compalox® AN/V-825; Compalox® AN/V-827; Compalox® AN/V-850;
Compalox® AN/V-800; Compalox® AN/V-005**

MOL No. 2009-68 Standards for Classification and Labeling of Chemical Substances and Material Safety Data Sheet (MSDS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name	Compalox® AN/V-801; Compalox® AN/V-802; Compalox® AN/V; Compalox® AN/V-812; Compalox® AN/V-813; Compalox® AN/V-825; Compalox® AN/V-827; Compalox® AN/V-850; Compalox® AN/V-800; Compalox® AN/V-005
Chemical Name	Substance : Al_2O_3 Al ₂ O ₃
Pure substance/mixture	Substance
Aluminum oxide	
CAS Number	1344-28-1
Weight-%	>99
B. Recommended use and Limitations on use	
Recommended Use	Abrasive Adsorbent(s) Catalyst Filler Chemical industry (raw material for the production of other aluminium compounds), etc.
Uses advised against	None known
C. Supplier information	
Company Name	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
E-mail	hubermaterials@huber.com
Internet	www.hubermaterials.com
Contact person	CHEMTREC
Emergency phone number	+1 800 424 9300 International +1 703 527 3887

Section 2: HAZARDS IDENTIFICATION

A. Hazard category/Classification

Physical Hazards Not classified

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Health Hazards Not classified

Environmental Hazards Not classified

B. Warning label items including precautionary statement

Label Elements

Symbols/Pictograms None

Signal Words None

Hazard Statements None

Precautionary statement

Prevention
Employ good industrial hygiene practice
Do not handle until all safety precautions have been read and understood.
Do not breathe dust
Wear protective gloves/protective clothing/eye protection/face protection

Response
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If swallowed, rinse mouth with water (only if the person is conscious)
Drink plenty of water

Storage Store away from incompatible materials

Disposal Dispose of contents/containers in accordance with local regulations

Additional Information: None.

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Substance

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	TSCA: United States	Weight-%
Aluminum oxide	1344-28-1	KE-01012	Not classified	Y	>99

Legend

X / Y: Complies, - / N: Not Listed, Exempt

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Section 4: FIRST AID MEASURES

- A. In case of eye contact** Rinse with water. Get medical attention if irritation develops and persists.
- B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.
- C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.
- D. In case of swallowing** Rinse mouth. Get medical attention if symptoms occur.
- E. Note to physician** Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media** None known

B. Specific hazards arising from the chemical (example: hazardous combustion products)

- Explosion hazard:** None known

C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

B. Environmental precautions Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

A. Precautions for safe handling

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In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limit values, biological limit values, etc

Aluminum oxide

Korea

TWA: 10 mg/m³

ACGIH

TWA: 10 mg/m³

ACGIH TLV

TWA: 1 mg/m³ respirable fraction

OSHA

TWA: 15 mg/m³ total dust

TWA: 5 mg/m³ respirable fraction

(vacated) TWA: 10 mg/m³ total dust

(vacated) TWA: 5 mg/m³ respirable fraction

B. Engineering Controls. Engineering Measures

Do not handle until all safety precautions have been read and understood

Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

Use exhaust ventilation to keep airborne concentrations below exposure limits

In case of insufficient ventilation, wear suitable respiratory equipment

C. Personal protective equipment

• Eye protection

If contact is likely, safety glasses with side shields are recommended.

• Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

• Body protection

Wear suitable protective clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Solid

Granules

Color

White

Odor

Odorless

Odor Threshold

No information available

pH:

Not available

Melting point / Freezing point

2045 °C / 3713 °F

Flash Point:

Not applicable

Product/Substance is inorganic

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Evaporation Rate	Solid
Flammability (solid, gas)	Not applicable Melting Point : > 300°C
Upper flammability limit:	No information available
Lower flammability limit:	No data available
Vapor Pressure	No data available
Vapor Density	1 hPa (2158 °C)
Relative Density	Not applicable
Water Solubility	Melting Point : > 300°C
Solubility in other solvents	4 g/cm3 (20°C)
Kinematic viscosity	Insoluble
Dynamic viscosity	No information available Not applicable : Product/Substance is inorganic No information available
Explosive Properties	No data available.
Oxidizing Properties	Not applicable. Solid.
	None
	None

9.2. Other information

No data available

Section 10: STABILITY AND REACTIVITY

A. Stability and hazardous reaction potential

Stability Stable under normal conditions

Hazardous reaction potential None known

B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc) Avoid creating dust. Incompatible materials.

C. Incompatible materials Strong oxidizing agents

D. Hazardous decomposition products No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

A. Information on likely routes of exposure

- Mouth Not an expected route of exposure
- Eyes Dust contact with the eyes can lead to mechanical irritation
- Skin Prolonged skin contact may cause temporary irritation.

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B. Information on health hazards

Aluminum oxide

Serious eye damage/eye irritation	Non-irritant : Rabbit
Skin Corrosion/Irritation	Non-irritant : Rabbit
Mutagenicity	in vitro in vivo Based on available data, the classification criteria are not met
Reproductive Effects	No indication of effects on fertility. No indication of effects on developmental toxicity.
Target Organ Effects	Lungs
Specific target organ toxicity - Single exposure	No information available
Specific target organ toxicity - Repeated exposure	Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect level) 70 mg(Al)/m ³ Repeated dose toxicity 1- Year Rat NOAEL (No observed adverse effect level) >=30 mg Al/kg bw

Acute Toxicity	Al ₂ O ₃ Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect level) 70 mg(Al)/m ³ . Target Organs Lungs Respiratory system Repeated dose toxicity 1- Year Oral Rat NOAEL (No observed adverse effect level) >=30 mg Al/kg bw
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Respiratory Sensitization	Based on available data, the classification criteria are not met
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Serious eye damage/eye irritation	Non-irritant : Rabbit Draize Test Guinea pig : No sensitization responses were observed
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Skin Corrosion/Irritation	Non-irritant : Rabbit
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Mutagenicity	Based on available data, the classification criteria are not met
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Reproductive Effects	Based on available data, the classification criteria are not met.
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Reproductive Toxicity	Based on available data, the classification criteria are not met.
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Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Target Organ Effects	Lungs.
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Specific target organ toxicity - Single exposure	No information available.
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Specific target organ toxicity - Repeated exposure	No information available.
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Section 12: ECOLOGICAL INFORMATION

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A. Ecotoxicity

Hazardous to the aquatic environment, acute hazard	Not classified Avoid runoff to waterways and sewers
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Hazardous to the aquatic environment, long-term hazard	Not classified Avoid runoff to waterways and sewers
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B. Persistence/degradability No data available

C. Bioaccumulative potential No data available

D. Mobility in soil No data available

E. Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 14: TRANSPORT INFORMATION

Mode of Transportation (Road, Water, Air, Rail)

ADR	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

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- 14.4. Packing group None
- 14.5. Environmental hazards No
- 14.6. Special precautions for user Not applicable

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

Section 15: REGULATORY INFORMATION

National Regulations

Aluminum oxide

CAS Number 1344-28-1

Weight-% >99

Korean GHS Classification Not classified

Toxic Release Inventory Not applicable

Chemicals - Group 1

Toxic Release Inventory >=1.0%

Chemicals - Group 2

Other domestic and foreign regulations

Global Inventories

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum oxide	1344-28-1	215-691-6	01-211952 9248-35-x xxx 01-211952 9248-35-0 017	Y	Y	Y	(1)-23 (ENCS)(ISHL)	KE-01012	Y	Y	Y	Y	Y

Legend

X / Y: Complies , - / N: Not Listed , Exempt

Section 16: OTHER INFORMATION

A. Source of Information

Abbreviations and acronyms International Agency for Research on Cancer (IARC)
International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG)

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International Uniform Chemical Information Database (IUCLID)
Workplace Hazardous Materials Information System (WHMIS) status and classification
EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
DOT (Department of Transportation)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
TWA - Time-Weighted Average
The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
PPE - Personal Protection Equipment
NIOSH - National Institute for Occupational Safety and Health
TDG (Transport of Dangerous Goods) Canada
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
Reportable Quantity (RQ) (RQ/% in mixture)
STEL - Short Term Exposure Limit
TLV® - Threshold Limit Value
Derived No Effect Level (DNEL)
SVHC: Substances of Very High Concern for Authorization:
Land transport (ADR/RID)
Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ICAO (air)
(IMDG) International Maritime Dangerous Goods
Positive Pressure Self-Contained Breathing Apparatus (SCBA)
Predicted No Effect Concentration (PNEC)
Globally Harmonized System (GHS)

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**C. Number of revisions and Date 1.3
of most recent revision**

D. Other

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End of Safety Data Sheet