

**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**

Prepared in accordance with GB/T 16483-2008, GB/TGB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013
Globally Harmonized System (GHS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

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 ₂ O ₃ Al ₂ O ₃
Pure substance/mixture	Substance
Aluminum oxide	
CAS Number	1344-28-1
Weight-%	>99
Recommended Use	Abrasive Adsorbent(s) Catalyst Filler Chemical industry (raw material for the production of other aluminium compounds), etc.
Uses advised against	None known
Company:	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
Emergency Telephone	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
E-mail	hubermaterials@huber.com
Internet	www.hubermaterials.com

Section 2: HAZARDS IDENTIFICATION

GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified

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Label Elements

Symbols/Pictograms None

Signal Word None

Precautionary Statements

Prevention
Avoid release to the environment
Observe good industrial hygiene practices.
Avoid breathing dust.
Use mechanical ventilation (dilution and local exhaust) to control exposure

Response
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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Spills and Leaks Collect spillage

Storage Store in a dry place

Disposal Dispose in accordance with local, state and national regulations

Additional Information: None.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Substance

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	REACH registration number	Weight-%
Aluminum oxide	1344-28-1	Y	Not classified	Y	01-2119529248-35-xxxx 01-2119529248-35-0017	>99

Section 4: FIRST AID MEASURES

General Advice In case of doubt or when symptoms persist, seek medical attention.

Eye Contact Hold eyelids apart and flush eyes with a steady, gentle stream of water for several

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minutes.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious)

Notes to Physician

Treat symptomatically

**Personal Protective Equipment
For First Aid Responders**

Wear suitable protective clothing
IF exposed or concerned: Get medical advice/attention

**Expected acute symptoms and
delayed symptoms**

None known

Section 5: FIRE FIGHTING MEASURES

Flammable Properties

None known

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Carbon dioxide (CO₂)
Foam
Dry chemical
Water spray (fog)

Unsuitable extinguishing media: None known

**Specific Hazards Arising from
the Chemical**

Keep product and empty container away from heat and sources of ignition

**Unusual fire & explosion
hazards:**

None

Protective measures:

Use protective equipment that is appropriate for surrounding materials.

**Protective Equipment and
Precautions for Firefighters**

Wear self-contained breathing apparatus and protective suit

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid dust formation
Ensure adequate ventilation
Use personal protection recommended in Section 8
Keep unauthorized personnel away

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Environmental Precautions	Avoid runoff to waterways and sewers
Methods for cleaning up	Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.
Other Information:	None known

Section 7: HANDLING AND STORAGE

Handling	In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation. Handle in accordance with good industrial hygiene and safety practice
Storage	Keep containers tightly closed in a cool, well-ventilated place

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Provide adequate ventilation as well as local exhaust at critical locations
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Aluminum oxide

China	TWA: 4 mg/m ³ total dust
China	STEL: 8 mg/m ³ total dust
ACGIH	TWA: 10 mg/m ³
ACGIH TLV	TWA: 1 mg/m ³ respirable fraction
NIOSH	Not established
OSHA	TWA: 15 mg/m ³ total dust
	TWA: 5 mg/m ³ respirable fraction
	(vacated) TWA: 10 mg/m ³ total dust
	(vacated) TWA: 5 mg/m ³ respirable fraction

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
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Personal Protective Equipment

Eye/Face Protection	Wear safety goggles with side protection
Skin and Body Protection	Wear suitable protective clothing
Hand Protection	Impervious gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash hands and face before breaks and immediately after handling the product.
Environmental Exposure Controls	Dispose of in accordance with local regulations

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Physical State	Solid Granules
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	Not available
Melting point / Freezing point	2045 °C / 3713 °F
Boiling Point / Boiling Range	2980 °C / 5396 °F (1013 hPa)
Flash Point:	Not applicable. Product/Substance is inorganic. Solid.
Evaporation Rate	Not applicable Melting Point : > 300°C
Flammability (solid, gas)	No information available
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	1 hPa (2158 °C)
Vapor Density	Not applicable Melting Point : > 300°C
Relative Density	4 g/cm3 (20°C)
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient	Not applicable : Product/Substance is inorganic
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Dynamic viscosity	Not applicable Solid
Explosive Properties	None
Oxidizing Properties	None

No data available

Section 10: STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid:	None known
Incompatible materials	Strong acids
Hazardous decomposition products	None under normal processing
Hazardous Reactions	None under normal processing
Hazardous polymerization:	None under normal processing

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Section 11: TOXICOLOGICAL INFORMATION

General Information

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Product Information

Information on Likely Routes of Exposure

Eyes	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
Skin	Avoid prolonged or repeated contact with skin Contact with dust can cause mechanical irritation or drying of the skin
Inhalation	Do not breathe dust
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.
Symptoms	Low hazard for usual industrial or commercial handling

11.1. Information on toxicological effects

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

Al₂O₃
Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect level) 70 mg(Al)/m³ . 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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Serious eye damage/eye irritation	Non-irritant : Rabbit Draize Test Guinea pig : No sensitization responses were observed
Respiratory Sensitization	Based on available data, the classification criteria are not met
Skin Corrosion/Irritation	Non-irritant : Rabbit
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Effects	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Target Organ Effects	Lungs.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Very low solubility. Not considered to be harmful to aquatic life.
Persistence/Degradability:	The methods for determining biodegradability are not applicable to inorganic substances.
Bioaccumulative Potential	Not likely to bioaccumulate.
Partition coefficient	Not available
Bioconcentration factor (BCF)	No data available.
Mobility in soil	None.
Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other Adverse Effects	None known

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products	Dispose of in accordance with local regulations
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Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: TRANSPORT INFORMATION

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

DOT	Not regulated
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

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

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

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	01-211952924 8-35-xxxx 01-211952924 8-35-0017	Y	Y	Y	(1)-23 (ENCS)(IS HL)	KE-01012	Y	Y	Y	Y	Y

Legend

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

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Compliance with the following
Chinese regulatory requirements

State Council Decree No. 591 on Safety Management of Dangerous Chemicals
GB30000.1 ~ GB30000.29 chemical classification and labeling specifications
GB / T17519 Guidance for the preparation of the SAFETY SAFETY DATA SHEET
GB / T16483 Material Safety Data Sheet Content and order of items
GB13690 General rules for classification and hazard classification of chemicals
GB15258 chemical safety label preparation requirements

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Section 16: OTHER INFORMATION

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	GB/T 16483-2008 GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013
GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None
Abbreviations and acronyms	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) 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 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) 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)

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End of Safety Data Sheet