



**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**

**Japan-JIS Z 7253:2012
Occupational Safety and Health Act
Globally Harmonized System (GHS)**

Issue Date: 04/Jun/2019
Print Date: 12/Jun/2019

Revision Number: 1.3
Page 1 of 9

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 Company:	None known MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
Internet	www.hubermaterials.com
E-mail	hubermaterials@huber.com
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 +81 03-3560-7316

2. HAZARD IDENTIFICATION

Japan GHS Classification	
Physical Hazards	Not classified
Health Hazard	Not classified
Environmental Hazards	Not classified
GHS label elements	
Symbols/Pictograms	None
Signal Word	None

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 2 of 9

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Precautionary Statements

Prevention

Do not handle until all safety precautions have been read and understood.
Employ good industrial hygiene practice
Do not breathe dust

Response

IF exposed or concerned: Get medical advice/attention
Wash with plenty of soap and water

Storage

Store away from incompatible materials.
Keep in a dry place

Disposal

Dispose of contents/container to an approved waste disposal plant

Additional Information:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Substance

Chemical Name	CAS Number	Japan	Japan GHS Classification	TSCA: United States	REACH registration number	Weight-%
Aluminum oxide	1344-28-1	(1)-23 (ENCS)(ISHL)	Not classified	Y	01-2119529248-35 -xxxx 01-2119529248-35 -0017	>99

4. FIRST AID MEASURES

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN:

Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse

IF IN EYES:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Call a physician if irritation develops and persists

If swallowed:

Rinse mouth thoroughly with water

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

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Safety Data Sheet

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 3 of 9

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray (fog)
Foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the substance or mixture Avoid dust formation

Fire-fighting measures In case of fire and/or explosion do not breathe fumes
Water mist may be used to cool closed containers
Keep unauthorized personnel away

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters Avoid dust formation
Ensure adequate ventilation
Use personal protection recommended in Section 8
Avoid contact with eyes and skin. Wear suitable personal protection equipment.
Keep unauthorized personnel away

Environmental Precautions Keep out of drains, sewers, ditches and waterways
Disposal considerations
See section 13 for more information

Methods and material for containment and cleaning up Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust
Small Spill: Vacuum or sweep material and place in a disposal container Minimize use of water during clean-up
Recommended filter type: High efficiency particulate air filter (HEPA filter)

Other Information Not applicable

7. HANDLING AND STORAGE

Handling

Technical measures Provide adequate ventilation as well as local exhaust at critical locations
Ensure adequate ventilation
Use personal protection equipment
See section 8 for more information

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Safety Data Sheet

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 4 of 9

Advice on safe handling	Minimize dust generation and accumulation
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a cool, well-ventilated place
Hygiene Measures	Wash hands thoroughly after handling

Storage

Packaging compatibilities	Keep/store only in original container
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Japan	TWA: 0.5 mg/m ³ (respirable dust) 2 mg/m ³ (total dust)
ACGIH	TWA: 10 mg/m ³
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	Ensure adequate ventilation, especially in confined areas
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Personal Protective Equipment

Respiratory Protection	In case of inadequate ventilation wear respiratory protection
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn
Eye Protection	Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear suitable protective clothing. Chemical resistant apron.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash thoroughly after handling Avoid contact with eyes and skin Do not breathe dust

9. 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
Flash Point:	Not applicable. Product/Substance is inorganic. Solid.
Evaporation Rate	Not applicable Melting Point : > 300°C
Flammability (solid, gas)	No information available

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 5 of 9

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 Not applicable : Product/Substance is inorganic No information available
Dynamic viscosity	Not applicable Solid
Explosive Properties	None
Oxidizing Properties	None
Other information:	No data available

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
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Information on Likely Routes of Exposure

Inhalation	Do not breathe dust
Skin	Avoid prolonged or repeated contact with skin Contact with dust can cause mechanical irritation or drying of the skin
Eyes	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
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

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 6 of 9

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

No information available

- Single exposure

Specific target organ toxicity

Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect level) 70 mg(Al)/m³

- Repeated exposure

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

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Based on available data, the classification criteria are not met

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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

Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 7 of 9

Persistence and degradability No data available

Bioaccumulation No data available.

Mobility in soil No data available

Hazardous to the ozone layer No data available

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state and local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

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

TDG -Canada	Not regulated
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

15. REGULATORY INFORMATION

Global Inventories

Pure substance/mixture Substance

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Safety Data Sheet

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 8 of 9

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

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA (Toxic Substances Control Act)

DSL (Domestic Substance List)

NDSL (Non-Domestic Substances List)

Japan - ISHL Notifiable Substances

ENCS - Japan Existing and New Chemical Substances

16. OTHER INFORMATION

Prepared by

Huber Engineered Materials Global Regulatory Affairs
email: regulatory.affairs@huber.com

Reason for Revision

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

Bibliography

NITE GHS Classified list

Japan Society for occupational health (2015) recommendation of allowable concentrations, etc.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

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

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)

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Issue Date: 04/Jun/2019

Print Date: 12/Jun/2019

Revision Number: 1.3

Page 9 of 9

ICAO (air)
(IMDG) International Maritime Dangerous Goods
Positive Pressure Self-Contained Breathing Apparatus (SCBA)
Predicted No Effect Concentration (PNEC)
Globally Harmonized System (GHS)

Disclaimer

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

End of Safety Data Sheet