	LEONID CHEMICALS PVT. LTD., BANGALORE	(CODE) DOCUMENT : WI (CODE) SECTION : WI/SM	
CHEMLABS [®] Quality Our Forte	An ISO-9001:2008 Certified Company	(DATE) : 01.04.2011	Issue : 02 Rev.: 00
	Quality Assurance Department		1 P a g e o f 1
THE MATERIAL SAFET	T DATA SHEET (MODO). ALGMINGM ONDE AGTIVE NEUTRAL		Irayevii

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION MSDS

Name: Aluminium Oxide active neutral

Catalog Numbers:

A009

Synonyms: Alumina.

Company Information: LEONID CHEMICALS Pvt Ltd,

62/A2 1st Stage,

Yeshvanthpur Industrial Suburb,

Asoka puram School Road,

Bangalore -22, Karnataka, INDIA

Ph- +91-80-23378354

Fax: +918023378354/23377126

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS



Dust may cause mechanical irritation.

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Skin:

Dust may cause mechanical irritation. Low hazard for usual industrial handling.

Inhalation:

May cause respiratory tract irritation. May cause lung damage.

Ingestion:

Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.

Chronic:

Chronic inhalation of fine dusts may cause lung damage.

SECTION 4- FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Information not available.

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

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SECTION 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

SECTION 7 -HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Do not ingest or inhale.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Not available. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: crystalline powder
Color	: White
Odor	: Odorless.
pH (10 % aqueous solution)	: 7.0 ± 0.5
Vapor Pressure	: Negligible.
Viscosity	: Not available.
Boiling Point	: 2980°C
Freezing/Melting Point	: 2000°C

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Auto ignition Temperature	: Not applicable.
Flash Point	: Not applicable.
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	: Not available.
Solubility in water	: Negligible in water.
Specific Gravity/Density	: 4.0 (water=1)
Molecular Formula	: Al ₂ O ₃
Molecular Weight	: 101.9612

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Reacts with chlorine trifluoride or ethylene oxide. Exothermic reaction above 200C with halocarbon vapors produces toxic hydrogen chloride and phosgene.

Hazardous Decomposition Products:

Hydrogen chloride, phosgene.

Hazardous Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION RTECS#:

CAS# 1344-28-1: Bd1200000

LD50/LC50:

Information Not available.

Carcinogenicity: Aluminum oxide not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

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SECTION 12 - ECOLOGICAL INFORMATION

Information not available.

SECTION 13 - DISPOSAL CONSIDERATION

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA Shipping Name	: FLAMMABLE SOLID, ORGANIC, N.O.S.*
Hazard Class	: 4.1
UN Number	: 1325
Packing Group	; 0
IMO Shipping Name	: FLAMMABLE SOLID, ORGANIC, N.O.S
Hazard Class	: 4.1
UN Number	: 1325
Packing Group	: 11
RID/ADR	
Shipping Name	: FLAMMABLE SOLID, ORGANIC, N.O.S
Hazard Class	: 4.1
UN Number	: 1325
Packing group	
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SECTION 15 DECLI A	

SECTION 15 - REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols: Information not available.

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Information not available.

Safety Phrases: Information not available.

WGK (Water Danger/Protection) CAS# 1344-28-1: 0

United Kingdom Occupational Exposure Limits CAS# 1344-28-1: OES-United Kingdom, TWA 10 mg/m3 TWA (total inhalable dust); 4 mg/m3 TWA (respirable dust)

United Kingdom Maximum Exposure Limits Canada CAS# 1344-28-1 is listed on Canada's DSL List. CAS# 1344-28-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1344-28-1: OEL-AUSTRALIA: TWA 10 mg/m³ OEL-BELGIUM: TWA 10 mg/m³ OEL-DENMARK: TWA 10 mg/m³ OEL-FRANCE: TWA 10 mg/m³ OEL-GERMANY: TWA 6 mg/m³ OEL-THE NETHERLANDS: TWA 10 mg/m³ OEL-RUSSIA: STEL 4 mg/m³ OEL-SWITZERLAND: TWA 6 mg/m³ OEL-UNITED KINGDOM: TWA 10 mg/m3; STEL 20 mg/m³ OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 1344-28-1 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Leonid Chemicals Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.



Specification manual - Aluminium Oxide Active Neutral

Al ₂ O ₃		Mol.wt.: 101.96
Product	: Aluminium Oxide Active Neutral LR grade	
Description	: White powder	
Cat No	: A009	
Cas No.	: 1344-28-1	
Prepared Date	: 28.09.2010	
Approved Date	: 28.09.2010	

REVISION HISTORY					
Issue/Rev	Description of Change		Author	Effective Date	
01/00	Initial Release		S. Paul Joshua	28.09.2010	
02/00	Reviewed no changes		S. Paul Joshua	01.04.2011	
Next Review	w Due :	02.04.2015			
To be review	wed by : Head-QC/QA				

SL No	Tests	Specification
Sl. No.	Tests	LR
1	pH (10% aqueous suspension)	7.0 ± 0.5
2	Activity	Passes

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance

62/A2 1st Stage Yeshvanthpur Industrial Suburb ,Ashokpuram School Road Bangalore 560022 Karnataka ,INDIA. Telefax:+91 080 23378354/23377126 Email:paul@leonidchemicals.net, www.leonidchemicals.com