

Jotun Anti-Skid BA

(In accordance with Article 41, Paragraph 1, of Industrial Safety and Health Act)

Section 1. Chemical product and company identification

A. Product name	: Jotun Anti-Skid BA
Label No.	: 27780
Product descriptio	n : Inert material.
Product type	: Solid.
B. Relevant identified	<u>uses of the substance or mixture and uses advised against</u>

Identified uses

C.	Supplier/Manufacturer	:	Chokwang Jotun Ltd. 96, Gwahaksandan 1-ro Gangseo-gu, Busan South Korea Tel: +82 51 797 6000 Fax: +82 51 711 7735 SDSJotun@jotun.com
	Emergency telephone number	:	H.G.LEE Chokwang Jotun Ltd. Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification : Not classified.

B. GHS label elements, including precautionary statements

Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statement	<u>s</u>
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

C. Other hazards which do : None known. not result in classification

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: aluminium oxide
Other means of identification	: Not available.

CAS number/other identifiers					
CAS number	:	1344-28-1			
EC number	:	Not available.			
Product code	;	27780			

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Section 3. Composition/information on ingredients

Ingredient name	Synonyms	CAS number	%
alumina	alumina	1344-28-1	90-100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Α.	Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
В.	Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
C.	Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
D.	Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Е.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	÷	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
В.	Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: metal oxide/oxides
C.	Special protective equipment for fire- fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 6. Accidental release measures

Α.	Personal precautions, protective equipment and emergency procedures	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
В.	Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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C. Methods and material for containment and cleaning up

Section 6. Accidental release measures

Small spill	 Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Α.	. <u>Precautions for safe handling</u>			
	Protective measures	: Put on appropriate personal protective equipment (see Section 8).		
	Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
В.	Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.		

Section 8. Exposure controls/personal protection

A. Control parameters

Occupational exposure limits

	Ingredient name			Exposure limits
	alumina			Ministry of Employment and Labor (Republic of Korea, 7/2018). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2
Β.	Appropriate engineering controls	:	Good general ventilation should be suff contaminants.	ficient to control worker exposure to airborne
	Environmental exposure controls	:		
С.	Personal protective equip	<u>om</u>	<u>ent</u>	
	Respiratory protection	:	respirator according to EN 140. Use re- when spraying this product, according to	ns above the exposure limit, they must use a spiratory mask with charcoal and dust filter to EN 14387(as filter combination A2-P2). In or fresh-air respiratory equipment. When use coalfilter.
	Eye protection	1	Use safety eyewear designed to protect	t against splash of liquids.
	Hand protection	:	resistance to any individual or combina The breakthrough time must be greated The instructions and information provid storage, maintenance and replacement Gloves should be replaced regularly an material. Always ensure that gloves are free from correctly. The performance or effectiveness of th damage and poor maintenance.	r than the end use time of the product. led by the glove manufacturer on use,
			D	ate of issue/Date of revision : 04.06.2019

Section 8. Exposure controls/personal protection

	applied once exposure has occurred.
	For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Skin protection	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

Α.	Appearance		
	Physical state	:	Solid.
	Colour	1	White.
В.	Odour	1	Odourless.
С.	Odour threshold	1	Not available.
D.	рН	1	Not applicable.
Ε.	Melting/freezing point	1	Not applicable.
F.	Boiling point/boiling range	:	Not available.
G.	Flash point	1	Not available.
	Burning time	:	Not available.
	Burning rate	4	Not available.
н.	Evaporation rate	1	Not available.
П.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Not applicable.
Κ.	Vapour pressure	:	Not available.
L.	Solubility	:	Insoluble in the following materials: cold water and hot water.
	Solubility in water	:	Not available.
Μ.	Vapour density	1	Not available.
Ν.	Relative density	4	3.95 g/cm ³
0.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not applicable.
Q.	Decomposition temperature	:	Not available.
	SADT	:	Not available.
R.	Viscosity	:	Not available.
S .	Molecular weight	:	Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	1	No specific data.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

A. Information on likely routes of exposure	: Not available.
Potential acute health e	effects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>ymptoms</u>
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.

Eye contact : No specific data.

B. Health hazards

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential chronic health effects Chronic toxicity

Section 11. Toxicological information

Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

ATE value

Not available.

Section 12. Ecological information

Α.	Aquatic and terrestrial toxic	<u>city</u>			
	Ecotoxicity :	No known significant effects or critical hazards.			
	Not available.				
В.	Persistence and degradabi	lity			
	Not available.				
C.	Bioaccumulative potential				
	Not available.				
D.	Mobility in soil				
		Not available.			
Е.	Other adverse effects	No known significant effects or critical hazards.			
S	Section 13. Disposal considerations				
Α.	Disposal methods :	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.			
В.	Disposal precautions	This material and its container must be disposed of in a safe way. Empty containers			

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number	Not regulated.	Not regulated.	Not regulated.
B. UN proper shipping name	-	-	-
C. Transport hazard class(es)	-	-	-
		Date of issue/Date	of revision : 04.06.2019

runoff and contact with soil, waterways, drains and sewers.

or liners may retain some product residues. Avoid dispersal of spilt material and

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Section 14. Transport information

D. Packing group	-	-	-
E. Environmental hazards	No.	No.	No.
F. Additional information	-	-	-
Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do			

the event of an accident or spillage.
Section 15. Regulatory information

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Α.	Regulation according to I	SH	<u>A</u>
	ISHA article 37 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 38 (Harmful substances requiring permission)	:	None of the components are listed.
В.	Regulation according to A	١R	EC & CCA
	AREC Toxic chemicals	:	Not applicable
	AREC Article 32 (Banned)	:	None of the components are listed.
	AREC Article 32 (Restricted)	:	None of the components are listed.
	AREC Article 17 (TRI)	:	The following components are listed: Aluminium and its compounds
	Korea inventory	:	All components are listed or exempted.
C.	Dangerous Materials Safety Management Act	:	Not available.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to c	oth	<u>er foreign laws</u>
	Europe inventory	:	All components are listed or exempted.
	United States inventory (TSCA 8b)	:	All components are listed or exempted.
	Japan inventory	:	Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

Α.	References	:	Not available.
В.	Date of issue/Date of revision	:	04.06.2019
С.	Version	:	1
	Date of printing	:	04.06.2019

D. Other

✓ Indicates information that has changed from previously issued version.

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations

Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.