# SAFETY DATA SHEET



1/11

# Jotun Anti-skid

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: Jotun Anti-skid
Product code	: 545
Product description	: Inert material.
Product type	: Solid.
Other means of identification	: Not available.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use in coatings - Industrial use Use in coatings - Professional use

#### 1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no	Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North LincoInshire DN15 8RR England Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00
1.4 Emergency telephone n	umber
National advisory body/Po	<u>vison Centre</u>
Telephone number <u>Supplier</u>	: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

Telephone number: +47 33 45 70 00 Jotun Norway (head office)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to UK CLP/GHS</u>

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

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Storage	- :	Not applicable.		
Response	1	Not applicable.		
Prevention	1	P260 - Do not breathe dust.		
General	1	Not applicable.		
Precautionary statements				
Hazard statements	1	No known significant effects or critic	al hazards.	
2.2 Label elements Signal word	:	No signal word.		

# **SECTION 2: Hazards identification**

Disposal	1	Not applicable.
Supplemental label elements	:	EUH210 - Safety data sheet available on request. EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	-	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Classification	Туре
aiumina	REACH #: 01-2119529248-35 EC: 215-691-6 CAS: 1344-28-1	≥90	Not classified.	[2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤5	Carc. 2, H351 (inhalation)	[1] [2] [*]
silicon dioxide	EC: 231-545-4 CAS: 7631-86-9	≤3	Not classified.	[2]
diiron trioxide	REACH #: 01-2119457614-35 EC: 215-168-2 CAS: 1309-37-1	≤3	Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### <u>Type</u>

1 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

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

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. **Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and ÷. shoes. Get medical attention if symptoms occur. Ingestion : Wash out mouth with water. 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. **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	: No specific data.	

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> blanket, water spray or mist.
Unsuitable extinguishing media	: Do not use water jet. Do not use inert gas under high pressure (e.g. CO2).
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions 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.
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.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	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.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 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).
6.3 Methods and material for	со	ntainment and cleaning up
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.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

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.

### 7.2 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.

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
alumina	EH40/2005 WELs (United Kingdom (UK), 1/2020). [aluminium oxides]
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable dust
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable
silicon dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,
	amorphous]
	TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: respirable dust
	TWA: 6 mg/m <sup>3</sup> 8 hours. Form: inhalable dust
diiron trioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Iron oxide]
	STEL: 10 mg/m <sup>3</sup> , (as Fe) 15 minutes. Form: Fume
	TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume
	EH40/2005 WELs (United Kingdom (UK), 1/2020). [rouge]
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable

### **Biological exposure indices**

No exposure indices known.

Recommended monitoring	: Reference should be made to appropriate monitoring standards. Reference to
procedures	national guidance documents for methods for the determination of hazardous
	substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
alumina	DNEL	Long term Inhalation	15.63 mg/ m³	Workers	Local
	DNEL	Long term Oral	3.29 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0.75 mg/m³		Local
	DNEL	Long term Inhalation	0.75 mg/m³	General population	Systemic
	DNEL	Long term Oral	1.32 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3 mg/m³ ́	Workers	Local
	DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic
titanium dioxide	DNEL	Long term Inhalation	28 µg/m³	General population	Local
	DNEL	Long term Inhalation	170 µg/m³	Workers	Local

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
		74.9 μg/l 20 mg/l	-

#### 8.2 Exposure controls

- Appropriate engineering controls
- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# Individual protection measures

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# **SECTION 8: Exposure controls/personal protection**

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.
Eye/face protection	: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: neoprene (> 0.35 mm), nitrile rubber (> 0.75 mm), PVC (> 0.5 mm)

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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. (FFP2 / N95).
Environmental exposure controls	: Do not allow to enter drains or watercourses.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

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Flammability	: Not applicable.		
Initial boiling point and boiling range	: Not available.		
Melting point/freezing point	: Not applicable.		
Odour threshold	: Not applicable.		
Odour	: Characteristic.		
Colour	: Brown. [Dark]		
Physical state	: Solid. [Powder.]		
<u>Appearance</u>			

# **SECTION 9: Physical and chemical properties**

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Upper/lower flammability or explosive limits	: Not applicable.			
Flash point	: Not applicable.			
Auto-ignition temperature	: Not applicable.			
Decomposition temperature	: Not available.			
рН	: Not applicable.			
Viscosity	: Kinematic (40°C): >20.5 mm²/s			
Solubility(ies)	:			
Media	Result			
cold water	Not soluble			
hot water	Not soluble			
Partition coefficient: n-octanol/ water	/ : Not available.			
Vapour pressure	: Not available.			
Evaporation rate	: Not available.			
Density	: 3.92 g/cm <sup>3</sup>			
Vapour density	: Not available.			
Explosive properties	: Not available.			
Oxidising properties	: Not available.			
Particle characteristics				
Median particle size	: Not available.			

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products		ecomposition products may include the following materials: carbon monoxide, arbon dioxide, smoke, oxides of nitrogen.
10.5 Incompatible materials	: No	ot applicable.
10.4 Conditions to avoid		/hen exposed to high temperatures may produce hazardous decomposition roducts.
10.3 Possibility of hazardous reactions	: Ur	nder normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: St	table under recommended storage and handling conditions (see Section 7).
10.1 Reactivity	: No	o specific test data related to reactivity available for this product or its ingredients.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Manium dioxide silicon dioxide	Skin - Mild irritant Eyes - Mild irritant	Human Rabbit	-	72 hours 24 hours 25 milligrams	-

#### **Sensitisation**

Based on available data, the classification criteria are not met.

#### **Mutagenicity**

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# **SECTION 11: Toxicological information**

No known significant effects or critical hazards.

#### **Carcinogenicity**

If has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

No known significant effects or critical hazards.

### Reproductive toxicity

<b>Developmental effects</b>	: No known significant effects or critical hazards.
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- Fertility effects
- : No known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

#### Aspiration hazard

Not available.

#### Potential acute health effects

Other information	: None identified.
General	: No known significant effects or critical hazards.
Ingestion	: No specific data.
Skin contact	: No specific data.
Inhalation	: No specific data.
Eye contact	: No specific data.
Symptoms related to the	e physical, chemical and toxicological characteristics
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.
Eve contact	No known significant effects or critical bazard

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Coating powder residues should not be allowed to enter drains or watercourses or be deposited where they could affect ground or surface waters.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours

**Conclusion/Summary** : No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Not available.

# **SECTION 12: Ecological information**

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: 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.
Hazardous waste	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>

#### Waste catalogue

Waste code	Waste designation		
08 01 12	waste paint and varnish other than those mentioned in 08 01 11		
Packaging			
Methods of disposal	packaging sl	ion of waste should be avoided or minimised wherever possible. Waste hould be recycled. Incineration or landfill should only be considered ng is not feasible.	
Type of packaging	Waste catalogue		
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions	or liners may	I and its container must be disposed of in a safe way. Empty containers retain some product residues. Avoid dispersal of spilt material and pontact with soil, waterways, drains and sewers.	

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Jotun Anti-skid

SECTION 14: Transport information					
14.5 Environmental hazards	No.	No.	No.	No.	

14.6 Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	:	Not available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### **Ozone depleting substances**

Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### EU regulations

Industrial emissions

: Not listed

(integrated pollution prevention and control) -Air

Industrial emissions : Not listed (integrated pollution prevention and control) -Water

International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

# **SECTION 15: Regulatory information**

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

## **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
-	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Design design of the design	

#### Procedure used to derive the classification

Not classified.

### Full text of abbreviated H statements

₩351 Suspected of causing cancer.

#### Full text of classifications

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Zarc. 2	CARCINOGENICITY - Category 2
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Notice to reader	

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