Conforms to UN GHS (Rev.7) (2017)

SAFETY DATA SHEET



Ultra Shine D0

Section 1. Identification

Flounctinei	1.1	
Product code	:	33124
Product type	:	Powder coating.
Other means of	1	Not available.
identification		

Recommended use of the chemical and restrictions on use

Use in coatings - Industrial use

Supplier's details	:	JOTUN POWDER COATINGS PAKISTAN (Pvt) Ltd. 2 KM DEFENCE ROAD, OFF 9 KM RAIWIND RD. NEAR VALANCIA HOMES GATE, LAHORE PAKISTAN
		Phone : + 92 42 53 20 438 Fax : + 92 42 53 20 468 sdsjotun@jotun.com
Emergency telephone number	:	Jotun AS, Norway +47 33 45 70 00

Section 2. Hazard identification

Classification of the substance or mixture

: SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

GHS label elements

Hazard pictograms



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Signal word	: V	Varning.
Hazard statements	: H	1373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		
General	: N	Not applicable.
Prevention	: P	260 - Do not breathe dust.
Response	: P	P314 - Get medical advice/attention if you feel unwell.
Storage	: N	Not applicable.
Disposal		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazard identification

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

Section 3. Composition/information on ingredients

Substance/mixture Other means of : Mixture

Other means of identification

: Not available.

Ingredient name	%	CAS number
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-,	≤3	127184-53-6
homopolymer, caprolactam-blocked		

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

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms	s/effects, acute and delayed
Potential acute health ef	fects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/syr</u>	nptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Section 4. First aid measures

Indication of immediate me	lical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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

Personal precautions, protec	tiv	e 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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".
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).
Methods and material for con	ta	inment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled 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

Precautions for safe handling			
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	
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.	
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.	

See Technical Data Sheet / packaging for further information.

Section 8. Exposure controls/personal protection

Control parameters

Dust Limit : 10 mg/m³ (TWA of total inhalable dust) and 4 mg/m³ (TWA of respirable) Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

controls	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
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 :	

Section 8. Exposure controls/personal 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.
	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).

Section 9. Physical and chemical properties and safety characteristics

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

<u>Appearance</u>			
Physical state	: Solid. Powder.		
Colour	Various.		
Odour	Odourless.		
Odour threshold	Not applicable.		
рН	Not applicable.		
Melting point (dust)	85 - 115 °C		
Boiling point	: Not applicable.		
Flash point	: Not applicable.		
Evaporation rate	: Not applicable.		
Flammability	: Fine dust clouds may form explosive mixtures with air.		
Lower explosion limit (dust)	: 30 g/m ³ (EN 14034-3)		
Minimum ignition energy (mJ)	: 10 - 30 (EN 13821)		
Vapour pressure	: Not applicable.		
Vapour density	: Not applicable.		
Density	: 1.2 to 1.9 g/cm ³		
Solubility(ies)			
Media	Result		
cold water hot water	Not soluble Not soluble		

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: >400°C
Decomposition temperature	: 250°C (482°F)
Viscosity	: Not applicable.
Particle characteristics	
Median particle size	: Not available.

Section 10. Stability and reactivity

Reactivity	: Fine dust clouds may form explosive mixtures with air.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).
	Take precautionary measures against electrostatic discharges.
	To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
	Prevent dust accumulation.
Incompatible materials	: Not applicable.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Carbonyl fluoride and hydrogen fluoride may be formed above 200°C.

Section 11. Toxicological information

Information on toxicological effects

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)

Section 11. Toxicological information

Product/ingredient name			Category	Route of exposure	Target organs
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl) -1,3,3-trimethyl-, homopolymer, caprolactam-blocked		Category 1	inhalation	-	
Aspiration hazard					·
Not available.					
Information on likely routes of exposure	:	Not available.			
Potential acute health effect	<u>s</u>				
Eye contact	:	No known significant ef	ects or critical haz	zards.	
Inhalation	:	No known significant ef	ects or critical haz	zards.	
Skin contact	:	No known significant ef	ects or critical haz	zards.	
Ingestion	:	No known significant ef	ects or critical haz	zards.	
Symptoms related to the phy	<u>ysic</u>	cal, chemical and toxico	logical character	<u>ristics</u>	
Eye contact	1	No specific data.			
Inhalation	1	No specific data.			
Skin contact	1	No specific data.			
Ingestion	1	No specific data.			
Delayed and immediate effect	<u>cts</u>	as well as chronic effec	ts from short and	<u>d long-term expo</u>	<u>sure</u>
Short term exposure		Net evelleble			
Short term exposure Potential immediate	:	Not available.			
Short term exposure Potential immediate effects					
Short term exposure Potential immediate effects Potential delayed effects		Not available. Not available.			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure	:				
Short term exposure Potential immediate effects Potential delayed effects	:	Not available.			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	:	Not available. Not available.			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects		Not available. Not available. Not available.			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects		Not available. Not available. Not available.			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff	: : : :	Not available. Not available. Not available.	organs through pro	longed or repeate	d exposure.
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available.	: : : : : : : :	Not available. Not available. Not available. S	• • •	•	d exposure.
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General	: : : : : : :	Not available. Not available. Not available. S May cause damage to c	ects or critical haz	zards.	d exposure.

Acute toxicity estimates

N/A

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Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability Not available. **Bioaccumulative potential** Not available. **Mobility in soil** Soil/water partition : Not available. coefficient (Koc)

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

Section 13. Disposal considerations

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. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or
	liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	
Transport hazard class(es)	-	-	-	
Packing group	-	-	-	
Environmental hazards	No.	No.	No.	

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 in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

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.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

<u>History</u>	
Date of printing	: 03.01.2024
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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 = Internediate 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) N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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

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