## SAFETY DATA SHEET



### **Jotun Accelerator DMPT100**

### Section 1. Chemical product and company identification

Product name	: Jotun Accelerator DMPT100
Product code	: 31123
Chemical name	: N,N-Dimethyl-p-toluidine
Other means of identification	<ul> <li>Benzenamine, N,N,4-trimethyl-; Dimethyl-p-toluidine; p-Toluidine, N,N-dimethyl-; n,n- Dimethyl-para-toluidine; N,N,4-trimethylbenzenamine; p,N,N-trimethylaniline; N,N, 4-trimethylaniline; p-methyl-N,N-dimethylaniline; p-(dimethylamino)toluene; N,N- dimethyl-p-tolylamine; dimethyl-4-toluidine</li> </ul>
Product type	: Liquid.
Product description	: Not available.

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

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

Supplier's details	: 佐敦涂料(张家港)有限公司 中国江苏扬子江国际化学工业园南海路39号 215634 电话: +86 512 58937988 传真: +86 512 58937986
	Jotun Coatings (Zhangjiagang) Co. Ltd NO.39 Nanhai Road Jiangsu Yangtze River International Chemical Industry Park, Jiangsu Province 215634 China Tel: +86 512 58937988 Fax: +86 512 58937986
	中远佐敦船舶涂料(青岛)有限公司 中国山东省青岛市高新区春阳路800号 总机电话: +86-532-68689888 总机传真: +86-532-66726750
	Jotun COSCO Marine Coatings (Qingdao) Co. Ltd. No. 800, Chunyang Road, High-tech Zone, Qingdao, P. R. China Tel: +86-532-68689888 Fax: +86-532-66726750
	SDSJotun@jotun.com
Emergency telephone number (with hours of operation)	: Emergency Services for Chemical Incident of China. Tel: +86 532 83889090

### Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Classification of the substance or mixture	:	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger.
Hazard statements	:	H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H373 - May cause damage to organs through prolonged or repeated exposure. (reproductive organs) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	1	Not applicable.
Prevention	:	<ul> <li>P280 - Wear protective gloves and protective clothing.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	:	<ul> <li>P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.</li> <li>P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.</li> <li>P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.</li> </ul>
Storage	:	Not applicable.
Disposal	-	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	:	No known significant effects or critical hazards.
Health hazards	:	Toxic if swallowed, in contact with skin or if inhaled.

### Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: N,N-Dimethyl-p-toluidine
Other means of identification	<ul> <li>Benzenamine, N,N,4-trimethyl-; Dimethyl-p-toluidine; p-Toluidine, N,N-dimethyl-; n,n-Dimethyl-para-toluidine; N,N,4-trimethylbenzenamine; p,N,N-trimethylaniline; N,N,4-trimethylaniline; p-methyl-N,N-dimethylaniline; p-(dimethylamino)toluene; N,N-dimethyl-p-tolylamine; dimethyl-4-toluidine</li> </ul>

<b>CAS number/other identifiers</b>		
CAS number	1	99-97-8
EC number	;	202-805-4

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
N,N-Dimethyl-p-toluidine	100	99-97-8

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	mediately flush eyes with plenty of water, occasionally lifting the up elids. Check for and remove any contact lenses. Continue to rinse nutes. Get medical attention.	
Inhalation	emove victim to fresh air and keep at rest in a position comfortable t is suspected that fumes are still present, the rescuer should wear ask or self-contained breathing apparatus. If not breathing, if breat if respiratory arrest occurs, provide artificial respiration or oxygen b resonnel. It may be dangerous to the person providing aid to give m suscitation. Get medical attention. If necessary, call a poison cent unconscious, place in recovery position and get medical attention in aintain an open airway. Loosen tight clothing such as a collar, tie, b aistband. In case of inhalation of decomposition products in a fire, s delayed. The exposed person may need to be kept under medical r 48 hours.	an appropriate hing is irregular by trained nouth-to-mouth er or physician. nmediately. belt or symptoms may
Skin contact	ash with plenty of soap and water. Remove contaminated clothing ash contaminated clothing thoroughly with water before removing in oves. Continue to rinse for at least 10 minutes. Get medical attent cessary, call a poison center or physician. Wash clothing before re oes thoroughly before reuse.	t, or wear ion.  If
Ingestion	et medical attention immediately. Call a poison center or physician outh with water. Remove dentures if any. If material has been swa posed person is conscious, give small quantities of water to drink. posed person feels sick as vomiting may be dangerous. Do not incless directed to do so by medical personnel. If vomiting occurs, the kept low so that vomit does not enter the lungs. Never give anythic unconscious person. If unconscious, place in recovery position ar tention immediately. Maintain an open airway. Loosen tight clothin llar, tie, belt or waistband.	Allowed and the Stop if the duce vomiting the head should ang by mouth to and get medical

Most important symptoms/effects, acute and delayed			
Potential acute health effects			
Eye contact	: No known significant effects or critical hazards.		
Inhalation	: Toxic if inhaled.		
Skin contact	: Toxic in contact with skin.		
Ingestion	: Toxic if swallowed.		
<u>Over-exposure signs/symptoms</u>			
Eye contact	: No specific data.		
Inhalation	: No specific data.		

	· no opeenie data.
Skin contact	: No specific data.
Ingestion	: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

### Section 4. First aid measures

Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing
	thoroughly with water before removing it, or wear gloves.

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	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, protective 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. Do not breathe vapour or mist. 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). Water polluting material. May be harmful to the environment if released in large quantities.		
Methods and material for containment and cleaning up				

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop
	up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
	material and place in an appropriate waste disposal container. Dispose of via a
	licensed waste disposal contractor.

### Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release
	from upwind. Prevent entry into sewers, water courses, basements or confined
	areas. Wash spillages into an effluent treatment plant or proceed as follows.
	Contain and collect spillage with non-combustible, absorbent material e.g. sand,
	earth, vermiculite or diatomaceous earth and place in container for disposal
	according to local regulations (see Section 13). Dispose of via a licensed waste
	disposal contractor. Contaminated absorbent material may pose the same hazard
	as the spilt product. Note: see Section 1 for emergency contact information and
	Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. 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. Store locked up. 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

Control parameters		
Occupational exposure lim	<u>its</u>	
None.		
Biological exposure indices No exposure indices known.		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	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 measu	<u>res</u>	
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 8. Exposure controls/personal protection

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. 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	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.	

# 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.

Appearance	
Physical state	: Liquid. [Viscous liquid.]
Colour	: Brown.
Odour	: Characteristic.
Odour threshold	: Not applicable.
рН	Not applicable.
Melting point/freezing point	: Not applicable.
Boiling point, initial boiling	: 202°C (395.6°F)
point, and boiling range	
Flash point	: Closed cup: 76°C (168.8°F)
Evaporation rate	: Not available.
Flammability	: Not applicable.
Lower and upper explosion	: Not applicable.
limit/flammability limit	
Vapour pressure	: Not available.
Relative vapour density	: 4.7 (Air = 1)

## Section 9. Physical and chemical properties and safety characteristics

Density	: 0.91 g/cm <sup>3</sup>			
Solubility(ies)	:			
Media		Result		
cold water hot water		Not soluble Not soluble		
Solubility in water	:	Not available.		
Partition coefficient: n- octanol/water	:	The product is more soluble in octanol; log(octanol/water) = 1.729		
Auto-ignition temperature	:	425°C (797°F)		
Decomposition temperature	:	Not available.		
Viscosity	:	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)		
Molecular weight	:	135.23 g/mole		
Particle characteristics				
Median particle size	:	Not applicable.		
No additional information.				

Section 10. Stabil	lity and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>

### Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
N,N-Dimethyl-p-toluidine	LC50 Inhalation Vapour	Rat	1400 mg/m <sup>3</sup>	4 hours
	LD50 Intraperitoneal	Mouse	212 mg/kg	-
	LD50 Oral	Rat	1650 mg/kg	-
	TDLo Oral	Mouse	250 mg/kg	-

### Irritation/Corrosion

Not available.

### **Sensitisation**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### Section 11. Toxicological information

### **Classification**

Product/ingredient name	IARC
N,N-Dimethyl-p-toluidine	2B

### **Reproductive toxicity**

Not available.

### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
N,N-Dimethyl-p-toluidine	Category 2	-	reproductive organs

### Aspiration hazard

Not available.

Information on likely routes of exposure	: Not available.
Potential acute health effects	<u>1</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Toxic if inhaled.
Skin contact	: Toxic in contact with skin.
Ingestion	: Toxic if swallowed.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Date of issue/Date of revision

### Section 11. Toxicological information

### Numerical measures of toxicity

Acute toxicity estimates					
Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	· · · ·	Inhalation (dusts and mists) (mg/l)
N,N-Dimethyl-p-toluidine	100	300	N/A	3	N/A

### Section 12. Ecological information

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Product/ingredient name	Result	Species	Exposure
N,N-Dimethyl-p-toluidine	Acute LC50 52000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
N,N-Dimethyl-p-toluidine	-	-	Not readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
N,N-Dimethyl-p-toluidine	1.729	33	low

<u>Mobility in soil</u>	
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

		China	UN	IMDG	IATA
UN number	UN1708		UN1708	UN1708	UN1708
UN proper shipping name	Toluidine	s, liquid	Toluidines, liquid	Toluidines, liquid	Toluidines, liquid
Transport hazard class(es)	6.1		6.1	6.1	6.1
Packing group	11		Ш	11	Ш
Environmental hazards	No.		No.	No.	No.
ADR / RID Special precautions	s for user	Hazard id : Transpo upright a	nd secure. Ensure that	<b>ses:</b> always transport in opersons transporting the	closed containers that are product know what to do i
Extinguishing medi Suitable extinguis media			t of an accident or spilla extinguishing agent suita	ige. able for the surrounding fi	re.
Unsuitable extingu media	ishing : None known.				
Incompatible mater	ials : No specific data.				
Transport in bulk a to IMO instruments	ccording	cording : Not available.			

### Section 15. Regulatory information

### Safety, health and environmental regulations specific for the product:

#### Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Regulations on the Control over Safety of Dangerous Chemicals Measures for Environmental Management of New Chemical Substances Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes Safety regulations for the use of chemicals in the workplace General Rule for Classification and Hazard Communication of Chemicals Classification and code of dangerous goods

#### List of Goods banned for Importing

None of the components are listed.

#### Drug Precursors Requiring an Import/Export License

None of the components are listed.

### **Inventory of Hazardous Chemicals**

None of the components are listed.

#### List of Explosive Precursors

None of the components are listed.

### Section 15. Regulatory information

List of Goods banned for Exporting

None of the components are listed.

#### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

Catalogue and classification of drug precursor chemicals

None of the components are listed.

#### Inventory of highly toxic articles

None of the components are listed.

#### Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

**Catalogue of Occupational Disease Hazard Factors - Dust** 

None of the components are listed.

#### **Catalogue of Occupational Disease Hazard Factors - Chemical Factors**

None of the components are listed.

#### 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	: 17.01.2024
Date of issue/Date of revision	: 17.01.2024
Date of previous issue	: 15.01.2024
Version	: 1.04
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 = International Air Transport Association IBC = 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	he classification

<u>ceaure used to derive the classification</u>

### Section 16. Other information

Classification	Justification
ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Expert judgment Expert judgment Expert judgment Expert judgment
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Expert judgment

#### References

: Not available.

Indicates information that has changed from previously issued version.

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.