

# **Section 1. Identification**

GHS product identifier	: Jotun Multicolor Industry Colorants BG, BR, CR, DR, GT, OY, RO, RT, SG, SK, SR, SU, VI, WH, WK, WR, YE, YO, YT, Master SI 228 White, Master SI 238 Green					
Other means of identification	: Not available.					
Product code	: 546					
Product description	: Colouring material.					
Raw material Code	1 · · · · · · · · · · · · · · · · · · ·					
Product type	pe : Liquid.					
Relevant identified uses of	f the substance or mixture and uses advised against					
	Identified uses					
Use in coatings - Industrial	use					
Supplier's details	: Jotun (Singapore) Pte Ltd 37 Tuas View Crescent Singapore 637236 Phone: 6508 8288 Fax: 6265 7484 SDSJotun@jotun.com					
Emergency telephone	: Jotun (Singapore) Pte Ltd, Tel: 6508 8288					

number

# Section 2. Hazards identification

Classification of the substance or mixture       : FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 LONG-TERM AQUATIC HAZARD - Category 2         GHS label elements       Hazard pictograms         Hazard pictograms       :         Signal word       :         Hazard statements       :         Flammable liquid and vapour. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.         Precautionary statements       :         Prevention       :         Avoid breathing vapour.         Response       :         Storage       :         Disposal       :		
Hazard pictograms       :       Image: Constraints         Signal word       :       Warning.         Hazard statements       :       Flammable liquid and vapour. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.         Precautionary statements       :       Avoid breathing vapour.         Response       :       Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.         Storage       :       Store locked up. Store in a well-ventilated place. Keep cool.         Disposal       :       Dispose of contents and container in accordance with all local, regional, national		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
Signal word       : Warning.         Hazard statements       : Flammable liquid and vapour. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.         Precautionary statements       : Avoid breathing vapour.         Prevention       : Avoid breathing vapour.         Response       : Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.         Storage       : Store locked up. Store in a well-ventilated place. Keep cool.         Disposal       : Dispose of contents and container in accordance with all local, regional, national	GHS label elements	
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Disposal : Dispose of contents and container in accordance with all local, regional, national	Response	
•	Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
	Disposal	

# Section 2. Hazards identification

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

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture		
Other means of identification	: Not available.		
CAS number/other ident	<u>ifiers</u>		
CAS number	: Not applicable.		
EC number	: Mixture.		
Product code	: 546		
Ingredient name		%	CAS number
Solvent naphtha (petroleu	um), light arom.	≥25 - ≤50	64742-95-6

≤3

64742-80-9

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.

Chemical formula

: Not applicable.

## Section 4. First aid measures

Distillates (petroleum), hydrodesulfurized middle

### 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. If necessary, call a poison center or physician. 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. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. 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. 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. If necessary, call a poison center or physician. 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/eff	ects, acute and delayed
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: No known significant effects or critical hazards.

## Section 4. First aid measures

Ingestion	: Can cause central nervous system (CNS) depression.			
Over-exposure signs/symp	<u>otoms</u>			
Eye contact	: No specific data.			
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness			
Skin contact	: No specific data.			
Ingestion	No specific data.			
Indication of immediate mediate	dical 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.			
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.			
Son toxicological informatic	n (Section 11)			

See toxicological information (Section 11)

# Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic 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 halogenated compounds metal oxide/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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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

# Section 6. Accidental release measures

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. Collect spillage.					
Methods and material for con	nta	inment and cleaning up					
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.					
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.					

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits		
Solvent naphtha (petroleum), light arom.	Factories Order (PEL) (Singapore, 11/2004). TWA: 123 mg/m <sup>3</sup> 8 hours. Form: All forms TWA: 25 ppm 8 hours. Form: All forms		

# Section 8. Exposure controls/personal protection

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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensur 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 meas	<u>ures</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.				
Eye/face protection	Safety eyewear complying to EN 166 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	<ul> <li>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.</li> <li>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.</li> <li>Wear suitable gloves tested to EN374. Recommended, gloves(breakthrough time) &gt; 8 hours: nitrile rubber, PVC</li> <li>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.</li> </ul>				
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.				
Other skin protection	<ul> <li>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.</li> </ul>				
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

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Appearance	
Physical state	: Liquid.
Colour	: Various colours.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point	: Not applicable.
Boiling point	: Lowest known value: 172 to 379°C (341.6 to 714.2°F)(Distillates (petroleum), hydrodesulfurized middle).
Flash point	: Closed cup: 48°C (118.4°F)
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.
Lower and upper explosive (flammable) limits	: 1.4 - 7.6%
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1.076 to 1.87 g/cm <sup>3</sup>
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Lowest known value: 225°C (437°F) (Distillates (petroleum), hydrodesulfurized middle).
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Kinematic (40C): >20.5 cSt

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredient	s
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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	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, we braze, solder, drill, grind or expose containers to heat or sources of ignition.	ld,
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
SADT	: Not available.	

# Section 11. Toxicological information

### Information on toxicological effects

<u>Acu</u>	te 1	toxi	city

Not available.

### Irritation/Corrosion

Not available.

### **Sensitisation**

Not available.

### **Mutagenicity**

Date of issue

# Section 11. Toxicological information

Not available.

#### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Name	Result	
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

#### Information on likely routes : Not available. of exposure

### Potential acute health effects

Eye contact	No known significant effects or critical hazards.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsin dizziness. May cause respiratory irritation.	iess or
Skin contact	No known significant effects or critical hazards.	
Ingestion	Can cause central nervous system (CNS) depression.	
Symptoms related to the phy	al, chemical and toxicological characteristics	
Eye contact	No specific data.	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	No specific data.	
Ingestion	No specific data.	
Delayed and immediate effect	as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>2</u>	
Not available.		

# Section 11. Toxicological information

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.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxi	city

Numerical measures of toxicity

Acute toxicity estimates

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light arom.	vent naphtha (petroleum), Acute EC50 <10 mg/l		48 hours
	Acute IC50 <10 mg/l Acute LC50 <10 mg/l	Algae Fish	72 hours 96 hours

### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Solvent naphtha (petroleum), light arom.	-	-	Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high

### <u>Mobility in soil</u>

: Not available.

coefficient (Koc) Other adverse effects

Soil/water partition

: 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 nonrecyclable 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	1263	1263	1263
UN proper shipping name	Paint related material	Paint related material. Marine pollutant (Solvent naphtha (petroleum), light arom.)	Paint related material
Transport hazard class(es)	3		3
Packing group	111	111	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	-	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

### **Additional information**

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

Transport in accordance with A	Dr	TRID, IND GAINO AND ICAO/IATA and hational regulation.
ADR / RID	:	Tunnel restriction code: (D/E) Hazard identification number: 30 Special provisions: 640E
IMDG	1	
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.
Transport in bulk according to Annex II of Marpol and the IBC Code	:	Not available.

## Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

# Section 16. Other information

Key to abbreviations	<ul> <li>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) UN = United Nations</li> </ul>
References	: Not available.
Indicates information that	at has changed from previously issued version

Indicates information that has changed from previously issued version.

Notice to reader

# Section 16. Other information

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.