

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

1.1 Product identifier	
Product name	: Jotamastic Smart Pack Comp A
Product code	: 1550
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.
UFI	: M394-T0E9-R004-4YDH
1.2 Relevant identified us	es of the substance or mixture and uses advised against

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

See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).

1.3 Details of the supplier of the safety data sheet

Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42

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SDSJotun@jotun.no

1.4 Emergency telephone number

Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Warning

SECTION 2: Hazards identification

Hazard statements	:	 H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	Not applicable.
Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	:	 P391 - Collect spillage. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	epoxy resin (MW ≤ 700) Phenol, methylstyrenated epoxy resin (MW 700-1200) butan-1-ol
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<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.
The mixture may be a skin se	nei	tiser. It may also be a skin irritant and repeated contact may increase this effect

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥10 - ≤25	Carc. 2, H351 (inhalation)	[1] [2] [*]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
epoxy resin (MW 700-1200)	CAS: 25036-25-3	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤3	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	<3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
propylidynetrimethanol	EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd See Section 16 for the full text of the H statements declared above.	[1]

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>

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

[*] 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 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 me	easures
General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Ingestion may cause nausea, diarrhea and vomiting.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

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SECTION 5: Firefighting measures

for fire-fightersdrains or watercourses.Special protective: Appropriate breathing apparatus may be required.		
media Unsuitable extinguishing media : Do not use water jet. 5.2 Special hazards arising from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Hazardous combustion products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. 5.3 Advice for firefighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Special protective : Appropriate breathing apparatus may be required.	5.1 Extinguishing media	
media5.2 Special hazards arising from the substance or mixtureHazards from the substance or mixtureHazardous combustion productsHazardous combustion productsColl closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.Special protective special protectiveSpecial protective<	• •	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
 Hazards from the substance or mixture Hazardous combustion products Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. 5.3 Advice for firefighters Special protective actions for fire-fighters Special protective Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Appropriate breathing apparatus may be required. 		: Do not use water jet.
substance or mixture Hazardous combustion productscause a health hazard.Hazardous combustion products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.5.3 Advice for firefighters Special protective actions for fire-fighters: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.: Special protective: Appropriate breathing apparatus may be required.	5.2 Special hazards arising f	om the substance or mixture
productscarbon dioxide, smoke, oxides of nitrogen.5.3 Advice for firefightersSpecial protective actions for fire-fighters: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.Special protective: Appropriate breathing apparatus may be required.		
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for fire-fightersdrains or watercourses.Special protective: Appropriate breathing apparatus may be required.	5.3 Advice for firefighters	
		: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
equipment for me-nymers	Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tive equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapo Refer to protective measures listed in sections 7 and 8.	ur or mist.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of a information in Section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel".	
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminate rivers, or sewers, inform the appropriate authorities in accordance with I regulations.	
6.3 Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e. earth, vermiculite or diatomaceous earth and place in container for dispo according to local regulations (see Section 13). Preferably clean with a c Avoid using solvents.	osal
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipm See Section 13 for additional waste treatment information.	ient.

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

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

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SECTION 7: Handling and storage

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

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 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.

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene butan-1-ol	 EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 154 mg/m³ 15 minutes.
procedures atmosph of the ve protectiv the follow the asse limit value	STEL: 50 ppm 15 minutes. oduct contains ingredients with exposure limits, personal, workplace ere or biological monitoring may be required to determine the effectiveness ntilation or other control measures and/or the necessity to use respiratory e equipment. Reference should be made to monitoring standards, such as ving: European Standard EN 689 (Workplace atmospheres - Guidance for ssment of exposure by inhalation to chemical agents for comparison with es and measurement strategy) European Standard EN 14042 (Workplace eres - Guide for the application and use of procedures for the assessment
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SECTION 8: Exposure controls/personal protection

of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	e Exposure	Value	Population	Effects
epoxy resin (MW ≤ 700)	Short term Derma	l 8.33 mg/ kg bw/day	Workers	Systemic
	Short term Inhalation	12.25 mg/ m ³	Workers	Systemic
	Long term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	Long term Inhalation	12.25 mg/	Workers	Systemic
	Short term Derma		General population [Consumers]	Systemic
	Short term Oral	0.75 mg/ kg bw/day	General population [Consumers]	Systemic
	Long term Dermal	3.571 mg/ kg bw/day	General population [Consumers]	Systemic
	Long term Oral	0.75 mg/ kg bw/day	General population [Consumers]	Systemic
titanium dioxide	Long term Inhalation	10 mg/m³	Workers	Local
	Long term Oral	700 mg/kg bw/day	General population	Systemic
Phenol, methylstyrenated	Long term Dermal		Workers	Systemic
	Long term Inhalation	57 mg/m ³	General population [Consumers]	Systemic
	Long term Dermal	8 mg/kg bw/day	General population [Consumers]	Systemic
	Long term Inhalation	28 mg/m³	General population [Consumers]	Systemic
	Long term Oral	4 mg/kg bw/day	General population [Consumers]	Systemic
xylene	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	Long term Inhalation	14.8 mg/m ³	General population	Systemic
	Long term Inhalation	77 mg/m³	Workers	Systemic
	Long term Dermal	bw/day	General population	Systemic
	Long term Dermal	bw/day	Workers	Systemic
	Short term Inhalation Short term	289 mg/m ³ 289 mg/m ³	Workers Workers	Local Systemic
hydrocarbons, C9, aromatics	Inhalation Long term Dermal		Workers	Systemic
		bw/day		Cystemic
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	Long term Inhalation	150 mg/m ³	Workers	Systemic
	Long term Dermal	11 mg/kg bw/day	General population	Systemic
		-	[Consumers]	
	Long term Inhalation	32 mg/m³	General population	Systemic
	Long term Oral	11 mg/kg	[Consumers] General	Systemic
4. J		bw/day	population [Consumers]	Quitaria
ethylbenzene	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	Long term Inhalation	15 mg/m³	General population	Systemic
	Long term Inhalation	77 mg/m³	Workers	Systemic
	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	Short term Inhalation	293 mg/m ³	Workers	Local
	Long term Inhalation	442 mg/m³	Workers	Local
	Short term Inhalation	884 mg/m³	Workers	Systemic
enzyl alcohol	Long term Oral	4 mg/kg bw/day	General population	Systemic
	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	Long term Inhalation	5.4 mg/m ³	General population	Systemic
	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	Short term Oral	20 mg/kg bw/day	General population	Systemic
	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	Long term Inhalation	22 mg/m³	Workers	Systemic
	Short term Inhalation	27 mg/m³	General population	Systemic
	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	Short term Inhalation	110 mg/m ³		Systemic
utan-1-ol	Long term Inhalation	310 mg/m ³	Workers	Local
	Long term Oral	3.125 mg/ kg bw/day	General population [Consumers]	Systemic
	Long term Inhalation	55 mg/m³	[Consumers] General population	Local
	Long term Oral	3.125 mg/	[Consumers] General	Systemic
	Long term	kg bw/day 55 mg/m³	population General	Local
	Inhalation Long term	310 mg/m ³	population Workers	Local
ropylidynetrimethanol	Inhalation Long term	3.3 mg/m³	Workers	Systemic
	Inhalation Long term Oral	1.68 mg/	General	Systemic

SECTION 8: Exposure controls/personal protection

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		kg bw/day	population	
	Long term Dermal	1.68 mg/	General	Systemic
		kg bw/day	population	
	Long term Dermal	2.79 mg/	Workers	Systemic
		kg bw/day		
	Long term	5.03 mg/m ³	General	Systemic
	Inhalation		population	
	Long term	19.54 mg/	Workers	Systemic
	Inhalation	m³		
	Short term Oral	50 mg/kg	General	Systemic
		bw/day	population	
	Short term Dermal	83.3 mg/	General	Systemic
		kg bw/day	population	
	Short term Dermal	138.8 mg/	Workers	Systemic
		kg bw/day		
	Short term	925 mg/m³	General	Systemic
	Inhalation		population	
	Short term	3037.3 mg/	Workers	Systemic
	Inhalation	m³		

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant	Ū	
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
Phenol, methylstyrenated	Fresh water	14 µg/l	-
	Marine	1.4 µg/l	_
	Sewage Treatment	2.4 mg/l	_
	Plant	2.1 mg/1	
	Fresh water sediment	52.9 mg/kg dwt	
	Marine water sediment	5.3 mg/kg dwt	-
	Soil	10.5 mg/kg dwt	
xylene	Fresh water	0.327 mg/l	
xylene	Marine	0.327 mg/l	
	Sewage Treatment	6.58 mg/l	-
	Plant	0.50 mg/i	-
	Fresh water sediment	10.46 mg/kg dut	
	Marine water sediment	12.46 mg/kg dwt	-
		12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	-
	Marine	0.01 mg/l	-
	Sewage Treatment Plant	9.6 mg/l	-
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
benzyl alcohol	Fresh water	1 mg/l	-
	Marine	0.1 mg/l	-
	Sewage Treatment Plant	39 mg/l	-
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	
butan-1-ol	Fresh water	0.082 mg/l	
	Marine	0.002 mg/l	
	Sewage Treatment Plant	2476 mg/l	-
	Fresh water sediment	0.178 mg/kg dwt	-
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	Marine water sediment				
	Soil	0.015 mg/kg dwt	-		

2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection measu	ires
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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles.
Skin protection	
Gloves	 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. Wear suitable gloves tested to EN374. Not recommended, gloves(breakthrough time) < 1 hour: PE May be used, gloves(breakthrough time) > 8 hours: Barricade, CPF 3, Responder, neoprene, butyl rubber, PVC Recommended, gloves(breakthrough time) > 8 hours: Viton®, 4H, Teflon, polyvinyl alcohol (PVA), nitrile rubber
	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	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
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. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Colour : Grey, Red, Yellowish-brown., Black, Green. Odour Characteristic. [Strong] **Odour threshold** : Not applicable. pН : Not applicable. Melting point/freezing point : Not applicable. Initial boiling point and : Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 254.92°C (490.9°F) boiling range **Flash point** : Closed cup: 41°C Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared **Evaporation rate** with butyl acetate : Not applicable. Flammability (solid, gas) **Upper/lower flammability or** : 0.8 - 13% explosive limits : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted Vapour pressure average: 0.17 kPa (1.28 mm Hg) (at 20°C) : Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted Vapour density average: 9.81 (Air = 1) Density 1.35 to 1.43 g/cm³ Solubility(ies) : Insoluble in the following materials: cold water and hot water. Partition coefficient: n-octanol/ : Not available. water : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, Auto-ignition temperature aromatics). **Decomposition temperature** : Not available. Viscosity : Kinematic (40°C): >20.5 mm²/s (>20.5 cSt) : Not available. **Explosive properties** : Not available. **Oxidising properties**

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

Stable under recommended storage and handling conditions (see Section 7).
Inder normal conditions of storage and use, hazardous reactions will not occur.
Vhen exposed to high temperatures may produce hazardous decomposition roducts.
Keep away from the following materials to prevent strong exothermic reactions: xidising agents, strong alkalis, strong acids.
Decomposition products may include the following materials: carbon monoxide, arbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Ingestion may cause nausea, diarrhea and vomiting.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Mouse	15600 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-

Acute toxicity estimates

Route	ATE value	
Dermal	21693.89 mg/kg 18719.42 mg/kg 180.26 mg/l	

Irritation/Corrosion

Product/ingredient name	Exposure	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
Phenol, methylstyrenated	Skin - Mild irritant	Mammal - species unspecified	-	-	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
epoxy resin (MW 700-1200)	Skin - Mild irritant	Mammal - species unspecified	-	-	-
	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-

Sensitisation

SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result		
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising		
Phenol, methylstyrenated	skin	Mammal - species unspecified	Sensitising		
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising		

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects : No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Other information

: None identified.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
hydrocarbons, C9, aromatics		Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
-	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours

Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
epoxy resin (MW ≤ 700)	-	_	Not readily
xylene	-	-	Readily
hydrocarbons, C9, aromatics	-	-	Not readily
ethylbenzene	-	-	Readily
benzyl alcohol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low
Phenol, methylstyrenated	3.627	-	low
xylene	3.12	8.1 to 25.9	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
ethylbenzene	3.6	-	low
benzyl alcohol	0.87	<100	low
butan-1-ol	1	-	low
propylidynetrimethanol	-0.47	<1	low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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.

Date of issue/Date of revision

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	:	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

	Waste code	Waste designation				
	08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substa				
P	ackaging					
	Methods of disposal	packaging s	tion of waste should be avoided or minimised wherever possible. Waste should be recycled. Incineration or landfill should only be considered ling is not feasible.			
	Disposal considerations	the relevant Empty conta Dispose of o	nation provided in this safety data sheet, advice should be obtained from waste authority on the classification of empty containers. ainers must be scrapped or reconditioned. containers contaminated by the product in accordance with local or al provisions.			
	Result		European waste catalogue (EWC)			
	CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by			

CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when h Empty contain residues may container. Do thoroughly int	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the o not cut, weld or grind used containers unless they have been cleaned cernally. Avoid dispersal of spilt material and runoff and contact with ys, drains and sewers.

SECTION 14: Transport information

ADR/RID	ADN	IMDG	ΙΑΤΑ	
UN1263	UN1263	UN1263	UN1263	
Paint	Paint	Paint. Marine pollutant (epoxy resin (MW ≤ 700))	Paint	
	3		3	
	UN1263 Paint 3	UN1263 Paint Paint Paint 3 3 3	UN1263UN1263UN1263PaintPaintPaint. Marine pollutant (epoxy resin (MW \leq 700))333	

SECTION 14:	Transp	or	t inform	ation				
14.4 Packing group								
14.5 Environmental hazards	Yes.			Yes.		Yes.		Yes. The environmentally hazardous substance mark is not required.
Additional informa	<u>tion</u>							
ADR/RID			sizes of ≤5 <u>Hazard ide</u> <u>Tunnel co</u>	L or ≤5 kg. entification num de (D/E)	1ber 30			red when transported in red when transported in
		1	sizes of ≤5				io not requi	
IMDG		1		e pollutant mark y schedules F-I		uired when t	ransported	in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ		:		nmentally hazard ion regulations.	dous subs	tance mark	may appea	r if required by other
14.6 Special precau user	itions for	:	upright and	-	that pers		•	ed containers that are oduct know what to do in
14.7 Transport in be according to IMO instruments	ulk	:	Not applica	ble.				

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) 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. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other EU regulations** VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information. : Not available. VOC for Ready-for-Use **Mixture** : At least one component is not listed. **Europe inventory** Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. **Seveso Directive**

SECTION 15: Regulatory information

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

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.

15.2 Chemical safety	: Not applicable.
assessment	

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

SECTION 16: Other i	nformation
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411 H412	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Chronic 2		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1		ASPIRATION HAZARD - Category 1
Carc. 2		CARCINOGENICITY - Category 2
Eye Dam. 1		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3
Repr. 2		REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1		SKIN SENSITISATION - Category 1
Skin Sens. 1B		SKIN SENSITISATION - Category 1B
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
		Category 3
Date of printing	: 31.01.2022	

Date of issue/ Date of revision	: 31.01.2022
Date of previous issue	: 29.10.2021
Version	: 4
Notice to reader	

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.



Exposure Scenario: Use in	coatings - Industrial use
Sector of Use	: Industrial use
Process Category	: PROC05 PROC07 PROC08a PROC10
Environmental release category(ies)	: ERC4

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Operational conditions and risk management measures

Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.
Type of activity or process	Risk management measures
Preparation of material for application	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Roller, spreader, flow application	: Provide extract ventilation to points where emissions occur.
Spraying - Manual	: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a respirator conforming to EN140 with type A/P2 filter or better.

Control of environmental exposure

Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
Conditions and measures related to external treatment of waste for disposal	 External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Additional information

The exposure scenario for the mixture is based on the following substances:

REACH #: 01-2119488216-32 REACH #: 01-2119456619-26



Exposure Scenario: Use in	coatings -	Professional use
Sector of Use	: Professional use	
Process Category	: PROC05 PROC08	Ba PROC10 PROC11
Environmental release category(ies)	: ERC8a ERC8d	

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Operational conditions and risk management measures

Control of worker exposure

Frequency and duration of use	: Covers daily exposures up to 8 hours
General - Operational conditions	: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented
General - Risk management measures	: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.
Type of activity or process	Risk management measures
Preparation of material for application - Indoor	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour per day.
	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.
Preparation of material for application - Outdoor	: Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour per day. or
	Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2 filter or better.
Equipment cleaning and maintenance	: Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours per day.
Roller, spreader, flow application - Indoor	: Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.
Roller, spreader, flow application - Outdoor	: Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Spraying - Manual - Indoor	: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.
Spraying - Manual - Outdoor	: Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.

Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.
Conditions and measures related to external recovery of waste	 External recovery and recycling of waste should comply with applicable local and/or national regulations.
Additional information	

REACH #: 01-2119488216-32 REACH #: 01-2119456619-26