

Safety Data Sheet

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SDS No.: 153932

V002.2

Revision: 16.05.2016 printing date: 09.01.2019

LOCTITE MF R301 known as FLUX MFR301 20L

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE MF R301 known as FLUX MFR301 20L

Other means of identification: LOCTITE MF R301 20L

Product code: IDH791671

Recommended use of the chemical and restrictions on use

Intended use: Liquid Flux

Identification of manufacturer, importer or distributor

Importer: Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598

Phone: +65 62660100 Fax: +65 62661161

E-mail address of person responsible for Safety Data

responsible for Safety Da Sheet:

ap-ua-psra.sea@henkel.com

Emergency information:

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call

CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

ory 2	
ory 2	
ory 1	
ory 3	Central Nervous System
ory 1	Central Nervous System
ory 1	
ory 3	
	ory 2 ory 2 ory 1 ory 3 ory 1 ory 1 ory 3

GHS label elements:

Hazard pictogram:



Signal word: Danger

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Hazard statement: H225 High

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

Response: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell.

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

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Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Propan-2-ol	60- 100 %	Flammable liquids 2
67-63-0		H225
		Serious eye damage/eye irritation 2
		H319
		Target Organ Systemic Toxicant - Single exposure 3
		H336
Hydrocarbon aliphatic aromatic naphthenic C9-12	10- 30 %	Target Organ Systemic Toxicant - Repeated exposure 1
64742-88-7		H372
		Aspiration hazard 1
		H304
		Chronic hazards to the aquatic environment 2
		H411
Glutaric acid	1- 10 %	Serious eye damage/eye irritation 2
110-94-1		H319
Rosin	1- 10 %	Skin Sensitization 1
8050-09-7		H317
Adipic acid	1- 10 %	Serious eye damage/eye irritation 2
124-04-9		H319

Section 4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.

Seek medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical advice.

Ingestion: Do not induce vomiting.

Seek medical advice.

Indication of immediate medical attention and special treatment

needed:

See section: Description of first aid measures

Small amounts of liquid aspirated into the respiratory system during ingestion or from

vomiting may cause bronchopneumonia or pulmonary oedema.

Do not induce vomiting.

Seek medical attention from a specialist.

Section 5. Fire fighting measures

Suitable extinguishing media: Alcohol-resistant foam.

Carbon dioxide, foam, powder

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Specific hazards arising from the

chemical:

Can form explosive gas/air mixtures.

Special protection equipment and

precautions for firefighters:

Wear self-contained breathing apparatus.

Hazardous combustion products: Oxides of carbon.

Thermal decomposition can lead to release of irritating gases and vapors.

Section 6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.

Wear protective equipment.

Environmental precautions: Do not let product enter drains.

Prevent further leakage or spillage if safe to do so.

Clean-up methods: Remove all sources of ignition.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for

disposal.

Section 7. Handling and storage

Handling: Use only in well-ventilated areas.

Keep away from sources of ignition - no smoking.

Wear suitable protective clothing, safety glasses and gloves. Take measures to prevent the build-up of electrostatic charges.

See advice in section 8

Storage: Store in a cool, well-ventilated place.

Keep away from sources of ignition.

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Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 Mag/m³ 5 Remarks ACGIH Included in the regulation but with no data values. See r further details Value type Time Weighted Average (TWA): Time Weighted Average (TWA):			
Remarks ACGIH Time Weighted Average (TWA):		Value type	Time Weighted Average (TWA):
Remarks		ppm	200
Ppm 400 mg/m³ 983 Remarks SG PEL			ACGIH
Proceedings Process		Value type	Time Weighted Average (TWA):
Remarks SG PEL		ppm	400
Value type Short Term Exposure Limit (STEL):		mg/m ³	983
Figure F		Remarks	SG PEL
Remarks ACGIH		Value type	Short Term Exposure Limit (STEL):
ISOPROPYL ALCOHOL 67-63-0 Walue type 500 mg/m³ 1,230 Remarks SG PEL Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7 ERROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Memarks KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 Time Weighted Average (TWA):		ppm	400
Ppm 500 mg/m³ 1,230 Remarks SG PEL		Remarks	
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7 Ppm 100 ERGOSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. EROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 Remarks ACGIH Included in the regulation but with no data values. See r further details ACGIH CACID Value type Time Weighted Average (TWA): Time Weighted Average (TWA): Time Weighted Average (TWA): ACGIH Exposure by all routes should be carefully controlled to as possible. ACGIH Included in the regulation but with no data values. See r further details Time Weighted Average (TWA):		Value type	Short Term Exposure Limit (STEL):
Hydrocarbon aliphatic aromatic naphthenic C9-12 G4742-88-7 ppm 100			
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7 ppm 100 KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 mg/m³ 200 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 REMARKS ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 Time Weighted Average (TWA):		mg/m ³	
C9-12 64742-88-7 ppm 100 KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 mg/m³ 200 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 mg/m³ 5 Remarks ACGIH Time Weighted Average (TWA):		Remarks	SG PEL
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 mg/m³ 200 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID ACGIH Included in the regulation but with no data values. See refurther details (Time Weighted Average (TWA): Value type	C9-12	Value type	Time Weighted Average (TWA):
TOTAL HYDROCARBON VAPOR 64742-88-7 mg/m³ 200 Remarks ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 mg/m³ 5 Remarks ACGIH Time Weighted Average (TWA): Time Weighted Average (TWA): Time Weighted Average (TWA):		ppm	
REMARKS ACGIH P: Application restricted to conditions in which there are aerosol exposures. KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 mg/m³ 5 Remarks ACGIH Included in the regulation but with no data values. See r further details Time Weighted Average (TWA): Time Weighted Average (TWA):	TOTAL HYDROCARBON VAPOR	Value type	Time Weighted Average (TWA):
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin. ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 Value type Time Weighted Average (TWA): ACGIH Time Weighted Average (TWA):		mg/m ³	200
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 64742-88-7 Remarks ACGIH Can be absorbed through the skin.		Remarks	ACGIH P: Application restricted to conditions in which there are negligible aerosol exposures.
ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 Walue type Time Weighted Average (TWA): ADIPIC ACID Value type Time Weighted Average (TWA):	TOTAL HYDROCARBON VAPOR	Value type	Skin designation:
DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ROSIN CORE SOLDER THERMAL DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 mg/m³ 5 Remarks ACGIH Included in the regulation but with no data values. See r further details Time Weighted Average (TWA): mg/m³ 5 Remarks ACGIH ADIPIC ACID Value type Time Weighted Average (TWA):		Remarks	ACGIH Can be absorbed through the skin.
DECOMPOSITION PRODUCTS (COLOPHONY) 8050-09-7 ADIPIC ACID 124-04-9 mg/m³ 5 Remarks ACGIH ADIPIC ACID Value type Time Weighted Average (TWA): Time Weighted Average (TWA):	DECOMPOSITION PRODUCTS (COLOPHONY)	Remarks	ACGIH Exposure by all routes should be carefully controlled to levels as low as possible.
124-04-9	DECOMPOSITION PRODUCTS (COLOPHONY)	Remarks	ACGIH Included in the regulation but with no data values. See regulation for further details
Remarks ACGIH ADIPIC ACID Value type Time Weighted Average (TWA):			Time Weighted Average (TWA):
ADIPIC ACID Value type Time Weighted Average (TWA):			
		Remarks	ACGIH
124-04-9			Time Weighted Average (TWA):
mg/m^3 5		mg/m ³	5
Remarks SG PEL		Remarks	SG PEL

Respiratory protection: Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if

the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection: Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection

index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6,

corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably

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> shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the

gloves should be replaced.

Eye protection: Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk

of splashing.

Protective eye equipment should conform to EN166.

Wear suitable protective clothing. **Body protection:**

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for

dusts.

Engineering controls: Ensure adequate ventilation, especially in confined areas.

Where reasonably practicable this should be achieved by the use of local exhaust

ventilation and good general extraction.

Extraction is necessary to remove fumes evolved during reflow.

Good industrial hygiene practices should be observed. Wash hands before work breaks Hygienic measures:

and after finishing work. Do not eat, drink or smoke while working.

Section 9. Physical and chemical properties

Pale yellow Appearance: liquid

Odor: hydrocarbons Odor threshold (CA): No data available. pH: No data available.

Melting point / freezing point: Not determined

Specific gravity: 0.801

Boiling point: 82.0 °C (179.6 °F) Flash point: 14 °C (57.2 °F) **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Lower explosive limit: 2 %(V) Upper explosive limit: 12 %(V) Vapor pressure: 66 mbar

(; 25 °C (77 °F))

Vapor density: Heavier than air Density: 0.8010 g/cm3 Solubility: No data available. Partition coefficient: n-

octanol/water:

Not determined

Auto ignition:

No data available. No data available. **Decomposition temperature:** Viscosity: No data available.

No data available. **VOC** content:

Section 10. Stability and reactivity

Reactivity/Incompatible

Reaction with strong oxidants.

Dissolves aluminium and zinc slowly with formation of hydrogen. materials:

Chemical stability: Stable under recommended storage conditions. SDS No.: 153932 Page 7 of 13

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Conditions to avoid:

Hazardous decomposition

products:

No decomposition if stored and applied as directed.

Thermal decomposition can lead to release of irritating gases and vapors.

Section 11. Toxicological information

Symptoms of Overexposure: May cause irritation to the digestive tract.

Vapors may cause drowsiness and dizziness.

Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure

give an allergic reaction (asthma).

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia

or pulmonary oedema SKIN: Rash, Urticaria. EYE: Irritation, conjunctivitis.

Aspiration hazard: May be fatal if swallowed and enters airways.

Acute oral toxicity:

Propan-2-ol	Value type	LD50
67-63-0	Value	5,840 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Rosin	Value type	LD50
8050-09-7	Value	2,800 mg/kg
	Species	rat
	Method	
Adipic acid	Value type	LD50
124-04-9	Value	5,560 mg/kg
	Species	rat
	Method	

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Acute inhalative toxicity:

Propan-2-ol	Value type	LC50
67-63-0	Value	72.6 mg/l
	Exposure time	4 h
	Species	rat
	Method	
A dimin : d	X7-1 4	1.050
Adipic acid	Value type	LC50
124-04-9	Value	> 7.7 mg/l
	Value	>7.7 mg/l

Acute dermal toxicity:

Propan-2-ol	Value type	LD50
67-63-0	Value	12,870 mg/kg
	Species	rabbit
	Method	
Rosin	Value type	LD50
8050-09-7	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Propan-2-ol	Result	slightly irritating
67-63-0	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbon aliphatic aromatic	Result	slightly irritating
naphthenic C9-12	Exposure time	
64742-88-7	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Rosin	Result	not irritating
8050-09-7	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Adipic acid	Result	slightly irritating
124-04-9	Exposure time	
	Species	rabbit
	Method	

Serious eye damage/irritation:

Propan-2-ol	Result	moderately irritating
67-63-0	Exposure time	· · · · · · · · · · · · · · · · · · ·
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbon aliphatic aromatic	Result	not irritating
naphthenic C9-12	Exposure time	
64742-88-7	Species	rabbit
	Method	Draize Test
Rosin	Result	not irritating
8050-09-7	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Adipic acid	Result	moderately irritating
124-04-9	Exposure time	
	Species	rabbit
	Method	

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Respiratory or skin sensitization:

Propan-2-ol	Result	not sensitising	
67-63-0	Test type	Buehler test	
	Species	guinea pig	
	Method	OECD Guideline 406 (Skin Sensitisation)	
Adipic acid	Result	not sensitising	
124-04-9	Test type		
	Species	guinea pig	
	Method		

Germ cell mutagenicity:

Propan-2-ol	Result	negative with metabolic activation
67-63-0	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Propan-2-ol	Result	negative
67-63-0	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte
		Micronucleus Test)
Hydrocarbon aliphatic aromatic	Result	negative
naphthenic C9-12	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
64742-88-7	Metabolic activation / Exposure time	with and without
	Method	
Rosin	Result	negative
8050-09-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Adipic acid	Result	negative
124-04-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	

Repeated dose toxicity:

Propan-2-ol	Result	
67-63-0	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	at least 104 w6 h/d, 5 d/w
	Species	rat
	Method	

Section 12. Ecological information

Ecotoxicity: Do not empty into drains / surface water / ground water.

Toxicity:

Propan-2-ol	Value type	LC50
67-63-0	Value	> 9,640 - 10,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol	Value type	EC50
67-63-0	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

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D 2.1	k7 1 .	FG 50
Propan-2-ol 67-63-0	Value type	EC 50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	OF CD C : 1.12 - 2000 (A .2 1 Cl. 1 - D 1 L L L L L L L L L L L L
** 1 1 1 1 1 1	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Hydrocarbon aliphatic aromatic	Value type	LC50
naphthenic C9-12	Value	> 2 - 5 mg/l
64742-88-7	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbon aliphatic aromatic	Value type	EC50
naphthenic C9-12	Value	1.4 mg/l
64742-88-7	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbon aliphatic aromatic	Value type	EC50
naphthenic C9-12	Value	4.1 mg/l
64742-88-7	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchnerella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	0.76 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchnerella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbon aliphatic aromatic	Value type	ECO
naphthenic C9-12	Value	1,000 mg/l
64742-88-7	Acute Toxicity Study	Bacteria
01,12 00 ,	Exposure time	30 min
	Species	50 mm
	Method	
Glutaric acid	Value type	LC50
110-94-1	Value	330 mg/l
110-94-1	Acute Toxicity Study	Fish
	Exposure time	24 h
	Species	Lepomis macrochirus OECD Guideline 203 (Fish, Acute Toxicity Test)
İ		
D :	Method	
Rosin	Value type	LC50
Rosin 8050-09-7	Value type Value	LC50 > 1,000 mg/l
	Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish
	Value type Value Acute Toxicity Study Exposure time	LC50 > 1,000 mg/l Fish 96 h
	Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas
8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test)
8050-09-7 Rosin	Value type Value Acute Toxicity Study Exposure time Species Method Value type	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50
8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l
8050-09-7 Rosin	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia
8050-09-7 Rosin	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h
8050-09-7 Rosin	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value Value type Value Value type Value	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l
Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h
8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
Rosin 8050-09-7 Rosin 8050-09-7	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value type Value Value type Value Value type Value	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish
8050-09-7 Rosin 8050-09-7 Rosin Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas
8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test)
8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9 Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 EC50 GCD Guideline 203 (Fish, Acute Toxicity Test)
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 85.7 mg/l
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 85.7 mg/l Daphnia
8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9 Adipic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 85.7 mg/l Daphnia 48 h
Rosin 8050-09-7 Rosin 8050-09-7 Adipic acid 124-04-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	LC50 > 1,000 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 911 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 > 100 mg/l Algae 72 h Scenedesmus subspicatus (new name: Desmodesmus subspicatus) DIN 38412-09 LC50 97 mg/l Fish 96 h Pimephales promelas OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 85.7 mg/l Daphnia

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LOCTITE MF R301 known as FLUX MFR301 20L

Adipic acid	Value type	EC50
124-04-9	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC0
	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Adipic acid	Value type	EC0
124-04-9	Value	10,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability:

Propan-2-ol	Result	readily biodegradable
67-63-0	Route of application	aerobic
	Degradability	70 - 84 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed
		Bottle Test)
Hydrocarbon aliphatic aromatic	Result	
naphthenic C9-12	Route of application	aerobic
64742-88-7	Degradability	55 - 63 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Glutaric acid	Result	inherently biodegradable
110-94-1	Route of application	aerobic
	Degradability	90 - 100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		Test)
	Result	readily biodegradable
	Route of application	
	Degradability	100 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD
		Screening Test)
Rosin	Result	
8050-09-7	Route of application	aerobic
	Degradability	36 - 46 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry
		Test)
Adipic acid	Result	inherently biodegradable
124-04-9	Route of application	no data
	Degradability	100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
	<u> </u>	Test)

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LOCTITE MF R301 known as FLUX MFR301 20L

Result	readily biodegradable
Route of application	no data
Degradability	96 %
Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD
	Screening Test)

Bioaccumulative potential / Mobility in soil:

Propan-2-ol	LogKow	0.05
67-63-0	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
Glutaric acid	LogKow	-0.29
110-94-1	Temperature	
	Method	
Rosin	LogKow	3 - 6.2
8050-09-7	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
Adipic acid	LogKow	0.081
124-04-9	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of as hazardous waste in compliance with local and national regulations.

Incineration under controlled conditions is recommended.

Packaging

Disposal of uncleaned packages: Dispose of as unused product.

Section 14. Transport information

Road transport ADR:

Class: 3
Packing group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1993
Label: 3

Technical name: FLAMMABLE LIQUID, N.O.S. (Isopropanol, Naphtha)

Additional information: Special provision 640D

Railroad transport RID:

Class: 3
Packing group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1993
Label: 3

Technical name: FLAMMABLE LIQUID, N.O.S. (Isopropanol, Naphtha)

Additional information: Special provision 640D

SDS No.: 153932 V002.2

LOCTITE MF R301 known as FLUX MFR301 20L

Inland water transport ADN:

Class: 3
Packing group: II
Classification code: F1

Hazard ident. number:

UN no.: 1993 Label: 3

Technical name: FLAMMABLE LIQUID, N.O.S. (Isopropanol, Naphtha)

Additional information: Special provision 640D

Marine transport IMDG:

 Class:
 3

 Packing group:
 II

 UN no.:
 1993

 Label:
 3

 EmS:
 F-E ,S-E

Seawater pollutant:

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Isopropanol, Naphtha)

Air transport IATA:

Class: 3
Packing group: II
Packaging instructions (passenger): 353
Packaging instructions (cargo): 364
UN no.: 1993
Label: 3

Proper shipping name: Flammable liquid, n.o.s. (Isopropanol, Naphtha)

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes

of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous

chemicals and dangerous good Part 1,2,3

Global inventory status:

Regulatory list Notification
EINECS yes
TSCA yes
DSL yes
KECI (KR) yes
IECSC yes

Section 16. Other information

Disclaimer: This information is based on our current level of knowledge and relates to the product in

the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.