

### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: SOLITHANE® S 113

Product Use Description: Polymer

Company: LANXESS Solutions US Inc.

199 Benson Road Middlebury, CT

06749

United States of America (USA)

Telephone: (US) +1 866-430-2775

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

: US: 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by <u>Product Safety Department</u>

(US) +1 866-430-2775

 ${\tt MSDSRequest@chemtura.com}$ 

Recommended use of the chemical and restrictions on use

Recommended use : Polymer

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

Form	liquid	
Colour	light yellow	
Odour	pungent	

### **GHS Classification**

Acute toxicity (Inhalation) : Category 2
Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Carcinogenicity : Category 2

### **GHS** label elements





### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

Signal word : Danger

Hazard pictograms





Hazard statements : H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H351 Suspected of causing cancer.

Other hazards : None

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

m-tolylidene diisocyanate 26471-62-5



**SOLITHANE® S 113** 

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Reasonably anticipated to be a human carcinogen

m-tolylidene diisocyanate 26471-62-5

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
m-tolylidene diisocyanate	26471-62-5	>= 5 - < 10 %

### **SECTION 4. FIRST AID MEASURES**

If inhaled : Remove to fresh air.

Give oxygen or artificial respiration if needed.

Get medical attention immediately.

In case of skin contact : Remove contaminated clothing and shoes.

Wash off with soap and plenty of water.

Obtain medical attention.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If symptoms persist, call a physician.

If swallowed : Get medical attention immediately.

Most important symptoms and effects, both acute and

delayed

: Lachrymation Breathing difficulties

sensitising effects

Notes to physician : Oxygen, if needed.

For specialist advice physicians should contact the Poisons

Information Service.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Dry chemical

Specific hazards during

firefighting

Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

SAP 6.0 SDS 2012-2 NA GHS 3/12 SDS Number: 400000002731





### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

health.

Specific extinguishing

methods

: Fight fire with normal precautions from a reasonable distance.

If water is used, fog nozzles are preferable. Keep away from fire, sparks and heated surfaces. Use water spray to cool unopened containers.

Do not discharge extinguishing waters into streams, rivers and

lakes.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Body covering protective clothing, full "turn-out" gear.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe areas.
 Wear suitable protective equipment.

Environmental precautions

: Do not allow contact with soil, surface or ground water. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Prevent further leakage or spillage if safe to do so. Ventilate the area. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Flush with plenty of water. Do not flush into surface water or sanitary sewer

system.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Handle in accordance with good industrial hygiene and safety practice.

Handle and open container with care.

Do not puncture.

Slacken off drum bungs before heating to prevent any

pressure build up.

Use only with adequate ventilation.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear suitable protective equipment. Wash thoroughly after handling.

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

Keep container closed when not in use.

Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for

long term and repeated use of isocyanates.





### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

Conditions for safe storage : Keep container tightly closed.

Keep in a dry, cool and well-ventilated place.

Keep under nitrogen.

Container can be pressurized by carbon dioxide due to

reaction with humid air and/or water.

Materials to avoid : Alcohols, Strong oxidizing agents, Water

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
m-tolylidene diisocyanate	26471-62-5	С	0.02 ppm 0.14 mg/m3	OSHA Z-1
		TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		С	0.02 ppm 0.14 mg/m3	OSHA Z-1
		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
		STEL	0.02 ppm 0.15 mg/m3	CAL PEL
		С	0.02 ppm	CAL PEL
		PEL	0.005 ppm 0.04 mg/m3	CAL PEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH

**Engineering measures** : Maintain air concentrations below occupational exposure

standards.

Ensure that extracted air cannot be returned to the workplace



### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

through the ventilation system.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Due to the poor warning properties regarding the chemical(s) of concern, negative pressure air purifying respirators are not

recommended at any exposure level in excess of the

exposure limit values.

Hand protection

Remarks : butyl-rubber

Eye protection : Safety glasses with side-shields

or

Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Purge open drums with nitrogen before resealing.

Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for

long term and repeated use of isocyanates.

Wash hands before breaks and at the end of workday.

Handle in accordance with good industrial hygiene and safety

practice.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : light yellow Odor : pungent

Odour Threshold : No data available pH : Not applicable

Melting point/range

Not applicable

Boiling point/boiling range : No data available Evaporation rate : No data available

Flash point : 150 - 175 °C

SAP 6.0 SDS 2012-2 NA GHS 6/12 SDS Number: 400000002731





### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

Method: closed cup

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available

Relative density : 1.073

Density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : soluble

Solvent: Tetrahydrofuran

soluble

Solvent: Dimethylformamide

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available
Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Exposure to moisture

Incompatible materials : Alcohols

Strong oxidizing agents

Water



### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

Hazardous decomposition

products

: Carbon oxides

Nitrogen oxides (NOx)

Hydrocarbons Isocyanates

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: 1.11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

**Components:** 

m-tolylidene diisocyanate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg

Skin corrosion/irritation

**Components:** 

m-tolylidene diisocyanate:

Species: Rabbit

Result: Severe skin irritation

Serious eye damage/eye irritation

**Components:** 

m-tolylidene diisocyanate:

Species: Rabbit

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

m-tolylidene diisocyanate:

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Result: Causes sensitisation.

Carcinogenicity





**SOLITHANE® S 113** 

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

**IARC** Group 2B: Possibly carcinogenic to humans

> m-tolylidene diisocyanate 26471-62-5

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Reasonably anticipated to be a human carcinogen

> m-tolylidene diisocyanate 26471-62-5

**Further information** 

Product:

Remarks: The product itself has not been tested.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish

m-tolylidene diisocyanate (Component)

: LC50: 147 mg/l Exposure time: 48 h

Species: Pimephales promelas (fathead minnow)

LC50: 133 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

m-tolylidene diisocyanate

: LC50: > 508 mg/l (Component) Exposure time: 48 h

Species: Grass shrimp (Palaemonetes pugio)

EC50: 12.5 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

m-tolylidene diisocyanate

(Component)

: EC50: 4,300 mg/l Exposure time: 96 h

Species: Chlorella vulgaris (Fresh water algae)

9/12 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000002731



### **SOLITHANE® S 113**

Version: 1.2 Print Date: 08/01/2017 Revision Date: 06/28/2017

### Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

No data available

Mobility (Product) : Remarks:

No data available

Biodegradability (Product) : Result: No data available

### **Ecotoxicology Assessment**

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). : There is no data available for this product.

Additional ecological

information (Product) (Product) The product itself has not been tested.

The following information is applicable to a component of this

### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Waste must be classified and labelled prior to recycling or

disposal.

In well ventilated area, fill drums with several centimeters of water. Leave drum open and slowly shake and roll to allow water contact. Leave open to air for sufficient time to cure. Dispose of waste product or used containers according

to local regulations.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

**IATA-DGR** 

UN/ID No. : UN 2206

Proper shipping name : Isocyanates, toxic, n.o.s.

(m-tolylidene diisocyanate)

: 6.1 Class Packing group : III

10 / 12 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000002731



### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

Labels : Toxic

**IMDG-Code** 

UN number : UN 2206

Proper shipping name : ISOCYANATES, TOXIC, N.O.S.

(m-tolylidene diisocyanate)

Class : 6.1
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

**49 CFR** 

UN/ID/NA number : UN 2206

Proper shipping name : ISOCYANATES, TOXIC, N.O.S.

(m-tolylidene diisocyanate)

Class : 6.1
Packing group : III
Labels : TOXIC
ERG Code : 155
Marine pollutant : no

### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
m-tolylidene diisocyanate	26471-62-5	100	1111

### **SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

SAP 6.0 SDS 2012-2 NA GHS 11/12 SDS Number: 400000002731



### **SOLITHANE® S 113**

Version: 1.2 Revision Date: 06/28/2017 Print Date: 08/01/2017

m-tolylidene diisocyanate 26471-62-5

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

m-tolylidene diisocyanate 26471-62-5

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory

NZIOC Not in compliance with the inventory

**ENCS** On the inventory, or in compliance with the inventory **KECI** On the inventory, or in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory
TCSI On the inventory, or in compliance with the inventory

US.TSCA On TSCA Inventory

### **SECTION 16. OTHER INFORMATION**

### **Further information**

### Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAP 6.0 SDS 2012-2 NA GHS 12/12 SDS Number: 400000002731



### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: SOLITHANE® C 113 300

Product Use Description: Used in polyurethane manufacturing.

Company: LANXESS Solutions US Inc.

199 Benson Road Middlebury, CT

06749

United States of America (USA)

Telephone: (US) +1 866-430-2775

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

: US: 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by <u>Product Safety Department</u>

(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Used in polyurethane manufacturing.

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

Form	oily liquid
Colour	light yellow
Odour	slight

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

### <u>.an</u>xess

### SAFETY DATA SHEET

### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

Other hazards : None

Not a hazardous substance or mixture.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Hazardous components**

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

If inhaled : Remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water and soap.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

If symptoms persist, call a physician.

If swallowed : Do NOT induce vomiting.

Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and

deleved

: No information available. No information available.

delayed

Notes to physician : No information available.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Extinguishing media - large fires

Alcohol-resistant foam

SAP 6.0 SDS 2012-2 NA GHS 2 / 8 SDS Number: 400000002727





### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

(on small fires)

Carbon dioxide (CO2)

Dry chemical Water spray

Unsuitable extinguishing

media

: Water spray jet

Specific hazards during

firefighting

: Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing

methods

: Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Special protective equipment

for firefighters

Body covering protective clothing, full "turn-out" gear.

Self-contained breathing apparatus (EN 133)

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Wear suitable protective equipment.

Environmental precautions

Do not allow contact with soil, surface or ground water.
 Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Large spills should be

collected mechanically (remove by pumping) for disposal.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with skin, eyes and clothing.

Use with adequate ventilation.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : Strong oxidizing agents

SAP 6.0 SDS 2012-2 NA GHS 3 / 8 SDS Number: 400000002727



### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

No hazardous ingredients

### Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Preventive skin protection

Hygiene measures : Use with adequate ventilation.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : oily liquid

Color : light yellow

Odor : slight

Odour Threshold : No data available pH : Not applicable

Melting point/range :

Not applicable

Boiling point/boiling range : No data available

Evaporation rate : No data available

Flash point : 200 - < 250 °C

Method: closed cup

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available

Relative density : 0.96

Density : No data available

Solubility(ies)





### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available
Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon oxides

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Carcinogenicity

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.



### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

### **Aspiration toxicity**

### **Product:**

No aspiration toxicity classification

### **Further information**

### **Product:**

Remarks: There is no data available for this product.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish (Product) : Remarks:

No data available

### Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

No data available

Mobility (Product) : Remarks:

No data available

Biodegradability (Product) : Remarks:

No data available

### **Ecotoxicology Assessment**

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological

: There is no data available for this product.

information (Product)

### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Dispose of waste material in compliance with all federal, state,

and local regulations.



### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

### **UNRTDG**

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

### **49 CFR**

Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

WHMIS Classification : : Not Rated

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### **SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.



### **SOLITHANE® C 113 300**

Version: 1.1 Revision Date: 06/28/2017 Print Date: 08/01/2017

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

All components of this product are on the Canadian DSL AICS

All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS
On the inventory, or in compliance with the inventory
KECI
On the inventory, or in compliance with the inventory
PICCS
On the inventory, or in compliance with the inventory
IECSC
On the inventory, or in compliance with the inventory
TCSI
On the inventory, or in compliance with the inventory

US.TSCA On TSCA Inventory

### **SECTION 16. OTHER INFORMATION**

### **Further information**

### **Other Emergency Phone Number**

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

4

### SOLITHANE® S 113

Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: 400000002731 Revision Date: 07/09/2020

Version 2.0

# SECTION 1. IDENTIFICATION

SOLITHANE® S 113

Product name:

Polyurethane prepolymer President Disable Description Synonyms:

06484 United States of America (USA) Telephone: (US) +1 886-430-2775 LANXESS Solutions US Inc. 2 Armstrong Road Shelton, CT Company:

CHEMTREC (24 hours) 800-424-9300 Emergency telephone number:

US: 800-292-5898 (Technical inquiries)
For additional emergency telephone numbers see section 16 of the Safety
Data Sineer.

Product Safety Department (US) +1 888-430-2775 Prepared by

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Reserved for industrial and professional use. strictions on use

# SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation)

: Category 1 Respiratory sensitisation

Category 1 Skin sensitisation Category 2 Carcinogenicity

GHS label elements Hazard pictograms

1/13

# SAFETY DATA SHEET

LANXESS

### SOLITHANE® S 113

Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: 400000002731 Revision Date: 07/09/2020

Signal word

Version 2.0

H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficultes if inhaled.
H351 Suspected of causing cancer.

Hazard statements

Prevention: Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a wall-verifiated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Weer protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P310 IF INHALED. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ afterition.

P363 Wash contaminated clothing before reuse.

P403 + P233 Store in a well-ventilated place. Keep container lightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

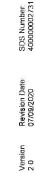
Substance / Mixture

Polyurethane prepolymer Substance name

Hazardous components

nical name         CAS-No.         Concentration (% w/w)           ylidene diisocyanate         26471-62-5         >= 5 - < 10
--

### SOLITHANE® S 113





Date of first issue: 09/04/2018 Date of first issue: 12/05/2014





### SDS Number: 400000002731 Revision Date: 07/09/2020 Version 2.0

Do not allow contact with soil, surface or ground water. Do not flush into surface water or sanitary sewer system, Environmental precautions

Pick up and transfer to properly labelled containers. Flush with plenty of water. Do not flush into surface water or sanitary sewer system.

# SECTION 4. FIRST AID MEASURES

Remove to fresh air. Give oxygen or artificial respiration if needed. Get medical attention immediately. lf inhaled

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Obtain medical attention. In case of skin contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. In case of eye contact

Get medical attention immediately Lachrymation Breathing difficulties Most important symptoms and effects, both acute and If swallowed

First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific Protection of first-aiders

sensitising effects

personal protective equipment

Oxygen, if needed, For specialist advice physicians should contact the Poisons Information Service.

# SECTION 5. FIREFIGHTING MEASURES

Notes to physician

Suitable extinguishing media : Water spray

Exposure to decomposition products may be a hazard to health. : Burning produces irritant fumes. Specific hazards during fire-

Dry chemical

Fight fire with normal precautions from a reasonable distance. Keep away from fire, sparks and hearted surfaces. Use water spray to cool unopened containers. Do not allow uncontrolled discharge of product into the envi-Further information

Wear full protective clothing and self-contained breathing apparatus. Special protective equipment for firefighters

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Evacuate personnel to safe areas. Wear suitable protective equipment Personal precautions, protec-tive equipment and emer-

gency procedures

SAFETY DATA SHEET



Date of last issue: 09/04/2018 Date of first issue: 12/05/2014

Prevent further leakage or spillage if safe to do so. Veritilate the area. Soak up with inert absorbent material (e.g. sand. silica gel, acid binder, universal binder, sawdust). Methods and materials for containment and cleaning up

# SECTION 7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety Allergic reactions may develop after inhalation of low concern trations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory. Open drum carefully as content may be under pressure. term and repeated use of isocyanates. Advice on safe handling

Keep container tightly closed. Keep in a dry, cool and well-ventitated place. Keep under nitrogen. Conditions for safe storage

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water

Stable under recommended storage conditions Further information on storage stability

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
m-tolylidene diisocyanate	26471-62-5	S	0.02 ppm	OSHA Z-1
			0.14 mg/m3	
		TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		O	0.02 ppm	OSHA Z-1
			0.14 mg/m3	
		TWA	0.005 ppm	OSHA P0
			0.04 mg/m3	
		STEL	0.02 ppm	OSHA P0
8			0.15 mg/m3	
		TWA	0.005 ppm	OSHA P0
			0.04 mg/m3	

### SOLITHANE® S 113



SDS Number:	400000002731
Revision Date:	07/09/2020
Version	2.0

	OSHA PO	ACGIH	ACGIH
Date of last issue: 09/04/2018 Date of first issue: 12/05/2014	0.02 ppm 0.15 mg/m3	0.001 ppm	0.005 ppm
Date of last Date of first	STEL	TWA (Inhal- able fraction and vapor)	STEL (Inhalable fraction and vapor)
SDS Number: 400000002731			
Revision Date: 07/09/2020	A		

Biological occupational exposure limits	exposure III	mits				
Components	CAS-No.	Control	Biological	Sam-	Permissible Basis	Basis
		parameters	specimen	pling	concentra-	
				fime	tion	
m-tolylidene diisocya-	26471-62- toluene	toluene	Urine	End of	5 µg/g cre-	ACGIH
nate	5	diamine		shift	atinine	BEI

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure that exfracted air cannot be returned to the workplace through the ventilation system.
Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

In the case of vapour formation use a respirator with an approved filter. Respiratory protection

Respirator with combination filter for vapour/particulate

Filter type AB-P

Filter type

Combined particulates, inorganic gas/vapour and organic vapour type

### Hand protection

Nitrile rubber > 480 min Break through time Material

0.4 - 0.6 mm Glove thickness

Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Remarks

Safety glasses with side-shields Eye protection

Safety gaggles

Impervious dothing Skin and body protection Purge open drums with nitrogen before resealing. Allergic reactions may develop after inhalation of low concen-

Hygiene measures

5/13



# SOLITHANE® S 113



Date of last issue: 09/04/2018 Date of first issue: 12/05/2014

SDS Number: 400000002731

Revision Date: 07/09/2020

Version 2.0

trations, also several hours after exposure. Regular medical checks, including luig function, are recommended for long term and repeated use of isocyanates.

Wash hands before breaks and at the end of workday, Handle in accordance with good industrial hygiene and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

light yellow pungent : liquid Appearance Colour Odour

No data avallable Odour Threshold

Not applicable Not applicable Melting point/range 핊

No data available Boiling point/boiling range 302 - 347 °F / 150 - 175 °C Flash point

No data available Evaporation rate

Method: closed cup

: No data available Lower explosion limit / Lower flammability limit Upper explosion limit / Upper flammability limit

: No data available

No data available Vapour pressure

No data available Relative vapour density

1.073 Relative density No data available

Density

: No data available Solubility(ies) Water solubility

: soluble Solvent: Tetrahydrofuran Solubility in other solvents

soluble Solvent: Dimethyifornamide

: No data available

6/13

Partition coefficient: n-octanol/water

### SOLITHANE® S 113



Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: 400000002731 Revision Date: 07/09/2020 Version 2.0

: No data available Auto-ignition temperature : No data available Decomposition temperature Self-Accelerating decomposition temperature (SADT)

Viscosity Viscosity, dynamic

No data available

No information available. No data available Viscosity, kinematic

: No data available Molecular weight

Oxidizing potential

# SECTION 10. STABILITY AND REACTIVITY

No dangerous reaction known under conditions of normal use. Reactivity

Stable under normal conditions Chemical stability

Possibility of hazardous reac- Hazardous polymerisation does not occur.

Exposure to moisture Conditions to avoid

Incompatible materials

Alcohols Strong oxidizing agents Water

Carbon oxides
Nitrogen oxides (NOX)
Hydrocarbons
Isocyanates Hazardous decomposition products

# SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Eye contact Skin contact Skin Absorption

Product: Acute inhalation toxicity

Acute toxicity

Acute toxicity estimate: 1.11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

7/13



LANXESS Energizing Chemistry

LANXESS Energizing Chomistry

### SOLITHANE® S 113

Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: 400000002731 Revision Date: 07/09/2020 Version 2.0

m-tolylidene dilsocyanate: Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

LC50 (Rat): 0.1 mg/l Exposure time: 4 h Test atmosphere: vapour

Acute inhalation toxicity

LD50 (Rabbit):> 9,400 mg/kg

Acute dermal toxicity

### Skin corrosion/irritation

m-tolylidene dilsocyanate:

Components:

Rabbit Severe skin irritation

# Serious eye damage/eye irritation

Components:

m-tolylidene diisocyanate:

Risk of serious damage to eyes.

# Respiratory or skin sensitisation

### Components:

m-tolylidene diisocyanate:

Guinea pig May cause sensitisation by skin contact. Causes sensitisation. Assessment Result

### Carcinogenicity

Group 2B: Possibly carcinogenic to humans m-tolylidene diisocyanate (toluene diisocyanates)

26471-62-5

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. OSHA

26471-62-5 Reasonably anticipated to be a human carcinogen m-tolylidene dilsocyanate (Toluene Dilsocyanates)

### Further information

Product: Remarks

The product itself has not been tested.

SOLITHANE® S 113



SDS Number: 400000002731

Revision Date: 07/09/2020

Version 2.0

Date of last issue: 09/04/2018
Date of first issue: 12/05/2014

# SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Components:

m-tolylidene dilsocyanate: Toxicity to fish

LC50 (Pimephales prometas (fathead minnow)): 147 mg/l Exposure time: 48 h

LC50 (Oncorbynchus mykiss (rainbow trout)): 133 mg/l Exposure time: 96 h

LC50 (Palaeomonetes vulgaris (Grass shrimp)): > 508 mg/l Exposure time: 48 h Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 48 h

EC50 (Chlorella vulgaris (Fresh water algae)): 4,300 mg/l Exposure time: 96 h

Toxicity to algae

NOEC (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Possible decomposition products in case of hydrol-ysis are: Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Diaminotoluene (TDA)

Persistence and degradability

**Product**:

: Result: No data available Biodegradability

Bloaccumulative potential

Remarks: No data available Bioaccumulation Product:

Mobility in soil

: Remarks: No data available Product; Mobility

Other adverse effects

Results of PBT and vPvB assessment

: This substance is not considered to be persistent, bloaccumulating and toxic (PBT). Additional ecological infor-

9/13

There is no data available for this product.

## SAFETY DATA SHEET

SOLITHANE® S 113

Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: 400000002731 Revision Date: 07/09/2020 Version 2.0

The product itself has not been tested.

The following information is applicable to a component of this material:

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

In accordance with local and national regulations. Waste must be classified and labelled prior to recycling or disposal.

Do not contaminate ponds, waterways or ditches with chemical or used container.

# SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR UN/ID No.

UN 2078 Toluene diisocyanate 6.1 II Proper shipping name

Packing group Labels

UN 2078 TOLUENE DIISOCYANATE IMDG-Code UN number Proper shipping name

6.1 6.1 F-A, S-A Packing group

EmS Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Marine pollutant

Not applicable for product as supplied.

National Regulations

UN 2078 Toluene diisocyanate 49 CFR UN/ID/NA number Proper shipping name

6.1 II TOXIC 156 no Class
Packing group
Labels
ERG Code

10/13

1

# SOLITHANE® S 113



Date of last issue; 09/04/2018 Date of first issue; 12/05/2014
SDS Number: 400000002731
Revision Date: 07/09/2020

## Special precautions for user

Version 2.0

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# SECTION 15. REGULATORY INFORMATION

# EPCRA - Emergency Planning and Community Right-to-Know Act

# CERCLA Reportable Quantity

omponents	CAS-No.	Component RQ (lbs)	Calculated product Ku (lbs)
-tolvlidene diisocvanate	26471-62-5	100	1111
,			

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# nely Hazardous Substances Threshold Planning Quantity SARA 302 Extra

SARA 302 Extremely nazardous Substantes Historica Commission	Idous Substances times	formula described
Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	Acute toxicity (any route of exposure) Respiratory or skin sensitisation Carcinogenicity	oute of exposure) sensitisation
SARA 313	The following comp tablished by SARA	The following components are subject to reporting levels established by SARA Title III, Section 313:

### California Prop. 65

WARNING: This product can expose you to chemicals including m-tolylidene diisocyanate, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings ca gov.

%6

m-tolylidene diisocyanate 26471-62-5

California List of Hazardous Substances

# California Permissible Exposure Limits for Chemical Contaminants m-tolylidene diisocyanate

26471-62-5 26471-62-5

m-tolylidene diisocyanate

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory exceeds in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

norted in the following inventories:

	n DSL
	the Canadian DSL
	C
of tills product are reported in the following intermedia	È
2	p
	are
ľ	걸
5	9
2	Sp
	ts of this product are on th
	: All components of
3	Jen
į	por
U	дшα
9	7
3	~
Ę	
5	
Ê	
5	
2	
ē	
i ne compor	
Ē	
9	7
Ξ	8

On the inventory, or in compliance with the inventory

Not in compliance with the inventory 11/13

NZIOC AICS

# SAFETY DATA SHEET

SOLITHANE® S 113



### Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 SDS Number: Revision Date: Version 2.0

40000002751 Date of Itst Issue, (2,00,2,01)	On the inventory, or in compliance with the inventory	On the inventory, or in compliance with the inventory	Not in compliance with the inventory	On the inventory, or in compliance with the inventory	On the inventory, or in compliance with the inventory	All substances listed as active on the TSCA inventory	
07/09/2020	ENCS	KECI	PICCS	IECSC	TCSI	US.TSCA	

### TSCA list

No substances are subject to a Significant New Use Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: m-tolytidene ditsocyanate

# SECTION 16. OTHER INFORMATION

### Further information

# Other Emergency Phone Number

Latin America:	Brazil	+55 11 3197 5891	
	All other countries	+44 (0) 1235 239 670	
Mexico:		+52 55 5004 8763	

	USA, ACGIH Threshold Limit Values (TLV)	ACGIH - Biological Exposure Indices (BEI)	USA, OSHA - TABLE Z-1 Limits for Air Contaminants -	1910.1000	USA. Occupational Exposure Limits (OSHA) - Table 2-1 Lim-	its for Air Confaminants	short-term exposure limit	8-hour, time-weighted average	Short-term exposure limit	8-hour time weighted average	Short-term exposure limit	Ceiling
ous							٠.	- 4	* *		4,4	+ 1
Full text of other abbreviations	ACGIH	ACGIH BEI	OSHA PO		OSHA Z-1		ACGIH / STEL.	ACGIH / TWA	ACGIH / STEL	OSHA P0 / TWA	OSHA P0 / STEL	OSHA Z-11C

AICS - Australian Inventory of Chemical Substances, ASTM - American Society for the Testing of Materials, bw - Body weight, CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act, CMR - Carcinogen, Mutagen of Reproductive Toxicard, Uni - Standard of the German Institute for Standardisation, DOI - Department of Transportation, DSL - Lomestic Substances List (Canada), ECA - Concentration associated with x% response; EMS - Extremely Hazardous Substance; ELX - Loading rate associated with x% response; EMS - Emergency

12/13

SOLITHANE® S 113



LANXESS Enorgizing Chemistry

> Version Revision Date: S 2.0 07/09/2020 4

SDS Number: 400000002731

Date of last issue: 09/04/2018 Date of first issue: 12/05/2014 Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response, ERG - Emergency Response Guide; GHS - Clobally Hanning Oxystem; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Indendrication System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Indendrication System; GLP - Good Laboratory Practice; HMIS - Harmational Americal solution and Equipment of Ships carrying Danageous Chemicals in Bulk; ICSO - Haff maximal inhibitory concentration; ICAO - International Civil Aviation Organization; ECSC - Haff maximal inhibitory concentration; ICAO - International Civil Aviation Organization; ECSC - Haff maximal inhibitory concentration; ICAO - International Civil Aviation Organization; ECSC - Lethal Concentration; GAO - International Civil Aviation Organization; ECSC - Lethal Concentration to GO % or a test population; LDS - Lethal Dose; MAPPO: Linternational Convention for the Prevention of So% of a test population (Modical Lethal Dose); MAPPO: Linternational Convention for the Prevention of So% of a test population (Modical Lethal Dose); MAPPO: Linternational Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NOICAJE.

No Observed (Adverse) Effect Concentration, NOICAJE. No Observed (Adverse) Effect Level; NOELR. No Observade (Adverse) Effect Level; NOELR. - No Observade (Adverse) Effect Level; NOELR. - No Observade (Adverse) Effect Level; NOELR. - Sequence Conservation and Recovery Act; REACH - Regulation (EC) PA - Resource Conservation and Recovery Act; REACH - Regulation, Evaluation, Authorisation and Restriction of Chemicals; RD - Recovery Act; REACH - Regulation Act; SDS - Sefety Data Sheet; TCS1 - Taiwan Chemicals Substances Control Act (United States); UN - United Mations; UNRTIDG - United Nations Recommendations on the Transport of Dangerous Goods; WPP - Very Pensistent and Very Boscommendations on t

Revision Date : 0

07/09/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handing, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN