



We create chemistry

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 1/14
(30524487/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

LIB11 BURGUNDY PEARL

Recommended use of the chemical and restriction on use

Recommended use*: Paints, Coatings and Related Materials; for industrial use only

Unsuitable for use: Not intended for sale to or use by the general public.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Coating

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Carc.	2	Carcinogenicity
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Flam. Liq.	3	Flammable liquids
Aquatic Acute	2	Hazardous to the aquatic environment - acute

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 2/14

(30524487/SDS_GEN_CA/EN)

Aquatic Chronic
STOT RE

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Hazardous to the aquatic environment - chronic
Specific target organ toxicity — repeated
exposure

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
H373 May cause damage to organs (Auditory organ, Kidney, Liver) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face protection.
P201 Obtain special instructions before use.
P264 Wash contaminated body parts thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P242 Use only non-sparking tools.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P243 Take action to prevent static discharges.
P233 Keep container tightly closed.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P202 Do not handle until all safety precautions have been read and understood.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe dust or mist.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 3/14

(30524487/SDS_GEN_CA/EN)

P312	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.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical attention.
P308 + P313	IF exposed or concerned: Get medical attention.
P314	Get medical advice/attention if you feel unwell.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Hazards not otherwise classified

No applicable information available.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

1,2,4-trimethylbenzene

CAS Number: 95-63-6
Content (W/W): ≥ 1.0 - $< 3.0\%$
Synonym: 1,2,4-Trimethylbenzene

butanone oxime

CAS Number: 96-29-7
Content (W/W): ≥ 0.1 - $< 0.2\%$
Synonym: 2-Butanone, oxime; Methyl ethyl ketoxime

cumene

CAS Number: 98-82-8
Content (W/W): ≥ 0.3 - $< 1.0\%$
Synonym: (1-Methylethyl)benzene; Isopropylbenzene, Cumene

ethylbenzene

CAS Number: 100-41-4
Content (W/W): ≥ 5.0 - $< 7.0\%$
Synonym: Ethylbenzene

Iron oxide

CAS Number: 1309-37-1
Content (W/W): ≥ 5.0 - $< 7.0\%$
Synonym: C.I. 77015

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 4/14

(30524487/SDS_GEN_CA/EN)

Xylene

CAS Number: 1330-20-7

Content (W/W): ≥ 25.0 - $< 50.0\%$

Synonym: Xylene; Dimethylbenzene

Mica-group minerals

CAS Number: 12001-26-2

Content (W/W): ≥ 3.0 - $< 5.0\%$

Synonym: Mica group minerals

Solvent naphtha (petroleum), light arom.

CAS Number: 64742-95-6

Content (W/W): ≥ 5.0 - $< 7.0\%$

Synonym: No data available.

silicic acid, crystalline

CAS Number: 14808-60-7

Content (W/W): ≥ 0.0 - $< 0.1\%$

Synonym: No data available.

Solvent naphtha (petroleum), light aliph.

CAS Number: 64742-89-8

Content (W/W): ≥ 3.0 - $< 5.0\%$

Synonym: No data available.

Stoddard solvent

CAS Number: 8052-41-3

Content (W/W): ≥ 1.0 - $< 3.0\%$

Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

If swallowed:

Immediate medical attention required. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 5/14
(30524487/SDS_GEN_CA/EN)

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: 1,2,4-trimethylbenzene

Symptoms: Overexposure may cause:; headache, tiredness, nausea, anxiety, asthma, bronchitis, noncardiogenic pulmonary edema

Information on: butanone oxime

Symptoms: Overexposure may cause:; corneal injury, skin corrosion, coughing, respiratory disorders, dyspnea, nausea, vomiting, diarrhea

Information on: cumene

Symptoms: Overexposure may cause:; unconsciousness, coordination disorder, headache, dizziness

Information on: Iron oxide

Symptoms: Overexposure may cause:; rhinitis, irritation of the mucous membranes, irritates the eyes and respiratory tract, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Xylene

Symptoms: Overexposure may cause:; coma, weakness, lethargy, confusion, dyspnea, nausea, headache, dizziness

Information on: Mica-group minerals

Symptoms: irritates the eyes and respiratory tract, weakness, pneumoconiosis, dyspnea, coughing

Information on: Solvent naphtha (petroleum), light arom.

Symptoms: Overexposure may cause:; Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, Ingestion may provoke the following symptoms:; asphyxia, dyspnea, choking, respiratory arrest, circulatory collapse, death

Information on: silicic acid, crystalline

Symptoms: Overexposure may cause:; rhinitis, irritation of the mucous membranes, irritates the eyes and respiratory tract, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Solvent naphtha (petroleum), light aliph.

Symptoms: Overexposure may cause:; Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, foam, dry powder, water spray

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 6/14

(30524487/SDS_GEN_CA/EN)

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Vapors and/or decomposition products are irritant and/or toxic. If product is heated above decomposition temperature acrid smoke and fumes will be released.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Notify proper authorities. Do not flood burning material with water due to potential spreading of fire. Flash fire may occur. Run-off water from fire may cause pollution. Contain contaminated water/firefighting water. Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use antistatic tools. Extinguish sources of ignition nearby and downwind. Avoid prolonged inhalation. Wear suitable personal protective clothing and equipment. Ensure adequate ventilation.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Dike spillage. Spills should be contained, solidified, and placed in suitable containers for disposal. Place into appropriately labeled waste containers.

7. Handling and Storage

Precautions for safe handling

Handle and open container with care. WARNING: Empty containers may still contain hazardous residue. Use static lines when mixing and transferring material. Do not puncture, drop, or slide containers. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Risk of explosion if heated under confinement. Use antistatic tools. Exhaust fans should be explosion proof. Avoid all sources of ignition: heat, sparks, open flame. Provide adequate ventilation to remove solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources. Sealed containers should be protected against heat as this results in pressure build-up.

Conditions for safe storage, including any incompatibilities

Segregate from strong bases. Segregate from oxidizing agents. Segregate from incompatible substances. Segregate from strong acids.

Suitable materials for containers: High density polyethylene (HDPE), Polypropylene (PP), Polyethyleneterephthalate (PET), Low density polyethylene (LDPE), Carbon steel (Iron), tinned carbon steel (Tinplate), Stove-lacquer R 78433, Stove-lacquer EHD0022, Stainless steel 1.4301 (V2), Stove-lacquer KNS L-5X

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 7/14
(30524487/SDS_GEN_CA/EN)

Further information on storage conditions: Keep container tightly closed. Protect from direct sunlight.

Storage stability:
Consult local fire marshal for storage requirements.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

1,2,4-trimethylbenzene	OSHA PEL	TWA value 25 ppm 125 mg/m3 ;
	ACGIH TLV	TWA value 25 ppm ;
cumene	OSHA PEL	Skin Designation ; The substance can be absorbed through the skin. PEL 50 ppm 245 mg/m3 ; SKIN_FINAL ; The substance can be absorbed through the skin. TWA value 50 ppm 245 mg/m3 ;
	ACGIH TLV	TWA value 50 ppm ;
ethylbenzene	ACGIH TLV	TWA value 20 ppm ;
Iron oxide	OSHA PEL	PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m3 Respirable fraction ;
Xylene	OSHA PEL	PEL 100 ppm 435 mg/m3 ; TWA value 100 ppm 435 mg/m3 ; STEL value 150 ppm 655 mg/m3 ;
	ACGIH TLV	TWA value 100 ppm ; STEL value 150 ppm ;
Mica-group minerals	OSHA PEL	TWA value 3 mg/m3 Respirable dust ; TWA value 20 millions of particles per cubic foot of air ;
	ACGIH TLV	TWA value 3 mg/m3 Respirable fraction ;
silicic acid, crystalline	OSHA PEL	TWA value 0.05 mg/m3 (Respirable dust); OSHA Action level 0.025 mg/m3 (Respirable dust);
	ACGIH TLV	TWA value 0.025 mg/m3 Respirable fraction ;
Stoddard solvent	OSHA PEL	PEL 500 ppm 2,900 mg/m3 ; TWA value 100 ppm 525 mg/m3 ;
	ACGIH TLV	TWA value 100 ppm ;

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Particulate filters should be added during spray operations. Wear respiratory protection if ventilation is inadequate.

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 8/14

(30524487/SDS_GEN_CA/EN)

Hand protection:

Use appropriate chemically impervious gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

Eye protection:

Wear face shield if splashing hazard exists. Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Work place should be equipped with a shower and an eye wash. Remove contaminated clothing. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Contact lenses should not be worn. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	No data available.	
Odour threshold:	No applicable information available.	
Colour:	red	
pH value:	No applicable information available.	
Melting point:	No applicable information available.	
Freezing point:	No applicable information available.	
Boiling range:	136.67 - 180.00 °C	
Sublimation point:	No applicable information available.	
Flash point:	26 °C	
Flammability:	No applicable information available.	
Lower explosion limit:	0.90 %(V)	
Upper explosion limit:	7.00 %(V)	
Autoignition:	No applicable information available.	
Vapour pressure:	No applicable information available.	
Density:	1.0381 g/cm3 (20 °C)	(calculated)
Relative density:	1.0381 (20 °C)	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Thermal decomposition:	No applicable information available.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	> 20.500 mm2/s	
Solubility in water:	No applicable information available.	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Molar mass:	No applicable information available.	
Evaporation rate:	No applicable information available.	

10. Stability and Reactivity

Reactivity

No applicable information available.

Chemical stability

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 9/14

(30524487/SDS_GEN_CA/EN)

The product is chemically stable.

Possibility of hazardous reactions

No applicable information available.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

Incompatible materials

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Decomposition products:

carbon dioxide, carbon monoxide

Thermal decomposition:

No applicable information available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry

Solvents are absorbed through the skin.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: 1,2,4-trimethylbenzene

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion. Of moderate toxicity after short-term inhalation.

Information on: butanone oxime

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. In animal studies the substance is virtually nontoxic after a single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Information on: cumene

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: ethylbenzene

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. Of low toxicity after single ingestion.

Information on: Xylene

Assessment of acute toxicity: Of low toxicity after single ingestion. Of low toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. The European Union (EU) has classified this

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 10/14

(30524487/SDS_GEN_CA/EN)

substance as 'harmful' after inhalation. The European Union (EU) has classified this substance as 'harmful' after dermal exposure. High concentrations in the air may cause narcosis.

Information on: Solvent naphtha (petroleum), light arom.

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. No deaths at the highest dose tested after short-term inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Of low toxicity after short-term skin contact.

Oral

Type of value: LD50

Species: rat

Value: $\geq 3,400.00000$ mg/kg

Inhalation

Type of value: LC50

Species: rat

Value: 17.200000 mg/l

Dermal

Type of value: LD50

Species: rabbit

Value: $> 4,300.000000$ mg/kg

Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Information on: 1,2,4-trimethylbenzene

Assessment of irritating effects: Skin contact causes irritation. Eye contact causes irritation.

Information on: butanone oxime

Assessment of irritating effects: May cause severe damage to the eyes. Not irritating to the skin.

Information on: cumene

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. Causes temporary irritation of the respiratory tract.

Information on: ethylbenzene

Assessment of irritating effects: May cause slight irritation to the skin. May cause slight irritation to the eyes.

Information on: Xylene

Assessment of irritating effects: Skin contact causes irritation. Eye contact causes irritation.

Information on: Solvent naphtha (petroleum), light arom.

Assessment of irritating effects: May cause slight irritation to the skin. May cause slight irritation to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Solvent naphtha (petroleum), light aliph.

Assessment of irritating effects: Skin contact causes irritation. Not irritating to the eyes.

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 11/14
(30524487/SDS_GEN_CA/EN)

Sensitization

Information on: butanone oxime
Assessment of sensitization:
Sensitization after skin contact possible.

Aspiration Hazard

No applicable information available.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Information on: ethylbenzene

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause deafness after repeated inhalation. The substance may cause deafness after repeated ingestion.

Information on: Iron oxide

Assessment of repeated dose toxicity: Short-term inhalation (5 days) of low aerosol concentrations did not cause substance-specific effects in animal studies. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.

Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

Information on: Xylene

Assessment of repeated dose toxicity: Overexposure may cause liver and kidney toxicity. Repeated exposure may affect certain organs. Damages the central nerve system. The substance can cause changes in the following organs after repeated exposure to large quantities: Liver Kidney

Information on: Solvent naphtha (petroleum), light arom.

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the liver after repeated ingestion.

Effects on the kidney of male rats were detected after repeated exposure. These effects are specific for the male rat and are known to be of no relevance to humans. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: silicic acid, crystalline

Assessment of repeated dose toxicity: The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.

This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.

Information on: Solvent naphtha (petroleum), light aliph.

Assessment of repeated dose toxicity: Repeated exposure to large quantities may affect certain organs. Damages the kidneys. Due to the species specific mode of action, the effects are not expected to occur in humans. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity: Contains a suspect carcinogen.

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 12/14
(30524487/SDS_GEN_CA/EN)

Information on: butanone oxime

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

Information on: cumene

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. A clear indication of an increased risk of cancer in humans has so far not been shown. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Information on: ethylbenzene

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part. A clear indication of an increased risk of cancer in humans has so far not been shown. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Information on: Solvent naphtha (petroleum), light arom.

Assessment of carcinogenicity: The substance showed no carcinogenic activity in animals after chronic administration to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: silicic acid, crystalline

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols is classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

NTP listed carcinogen

Teratogenicity

Information on: Xylene

Assessment of teratogenicity: In animal studies the substance did not cause malformations.

Information on: butanone oxime

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

12. Ecological Information

No applicable information available.

13. Disposal considerations

Waste disposal of substance:

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01

Version: 9.0

Page: 13/14

(30524487/SDS_GEN_CA/EN)

Do not incinerate closed containers. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Do not discharge into drains/surface waters/groundwater.

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Do not reuse containers without commercial reconditioning.

14. Transport Information

Land transport

TDG

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Marine pollutant: NO
Proper shipping name: PAINT

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

NFPA Hazard codes:

Health: 2 Fire: 3 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2020/05/01

Safety Data Sheet

LIB11 BURGUNDY PEARL

Revision date : 2020/05/01
Version: 9.0

Page: 14/14
(30524487/SDS_GEN_CA/EN)

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END OF DATA SHEET