

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 1)

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

540-88-5	tert-butyl acetate	10-30%
13463-67-7	titanium dioxide in white, pastel or grey colors	10-30%
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	1-5%
7429-90-5	aluminium powder (stabilised) in sylvet color	1-5%
8052-41-3	Stoddard solvent	1-5%
53880-05-0	Homopolymer of IPDI	1-5%
110-43-0	methyl amyl ketone	1-5%
64742-95-6	Solvent naphtha (petroleum), light arom.	1-5%
1333-86-4	Carbon black in dark, grey colors	0.1-1%
4098-71-9	isophorone di-isocyanate	0.1-1%

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

64741-65-7 Naphtha (petroleum), heavy alkylate

(Contd. of page 2)

0.1-1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 3)

Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

540-88-5 tert-butyl acetate

PEL Long-term value: 950 mg/m³, 200 ppm

REL Long-term value: 950 mg/m³, 200 ppm

TLV Short-term value: 712 mg/m³, 150 ppm

Long-term value: 238 mg/m³, 50 ppm

7429-90-5 aluminium powder (stabilised)

PEL Long-term value: 15*; 5** mg/m³

*Total dust; ** Respirable fraction

REL Long-term value: 10* 5** mg/m³

as Al*Total dust**Respirable/pyro powd./welding f.

TLV Long-term value: 1* mg/m³

as Al; *as respirable fraction

8052-41-3 Stoddard solvent

PEL Long-term value: 2900 mg/m³, 500 ppm

REL Long-term value: 350 mg/m³

Ceiling limit value: 1800* mg/m³

*15-min

TLV Long-term value: 525 mg/m³, 100 ppm

110-43-0 methyl amyl ketone

PEL Long-term value: 465 mg/m³, 100 ppm

REL Long-term value: 465 mg/m³, 100 ppm

TLV Long-term value: 233 mg/m³, 50 ppm

1333-86-4 Carbon black

PEL Long-term value: 3.5 mg/m³

REL Long-term value: 3.5* mg/m³

*0.1 in presence of PAHs; See Pocket Guide Apps.A+C

TLV Long-term value: 3* mg/m³

*inhalable fraction

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 4)

4098-71-9 isophorone di-isocyanate

REL Short-term value: 0.18 mg/m³, 0.02 ppm
 Long-term value: 0.045 mg/m³, 0.005 ppm
 Skin

TLV Long-term value: 0.045 mg/m³, 0.005 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:**

During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Various colors

· **Odor:** Aromatic

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 5)

· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	97 °C (206.6 °F)
· Flash point:	15 °C (59 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	41 hPa (30.8 mm Hg)
· Density at 20 °C (68 °F):	1.24-1.44 g/cm ³ (10.3478-12.0168 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
VOC content:	100g/l / 0.83lb/gal
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
Incompatible with strong oxidizers.
Keep away from heat
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 6)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>3,400 mg/kg (rab)
--------	------	--------------------

Inhalative	LC50/4 h	>10.2 mg/l (rat)
------------	----------	------------------

64741-65-7 Naphtha (petroleum), heavy alkylate

Oral	LD50	>6,000 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>3,000 mg/kg (rabbit)
--------	------	-----------------------

Inhalative	LC50/4 h	>7.8 mg/l (rat)
------------	----------	-----------------

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Additional toxicological information:**

This product may cause cancer.

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
------------	------------------	----

7631-86-9	silicon dioxide, chemically prepared	3
-----------	--------------------------------------	---

1333-86-4	Carbon black	2B
-----------	--------------	----

1330-20-7	xylene	3
-----------	--------	---

14808-60-7	Quartz (SiO ₂)	1
------------	----------------------------	---

111-76-2	2-butoxyethanol	3
----------	-----------------	---

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
------------	----------------------------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100


(Contd. of page 7)

- **Additional ecological information:**
- **General notes:**
*Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|----------------------------|
| · UN-Number | UN1263 |
| · DOT, ADR, IMDG, IATA | |
| · UN proper shipping name | Paint |
| · DOT | 1263 PAINT |
| · ADR | PAINT |
| · IMDG, IATA | |
| · Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | II |
| · DOT, ADR, IMDG, IATA | |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E,S-E |
| · Stowage Category | B |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: MC-LUSTER 100

(Contd. of page 8)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **ADR**

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **IMDG**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1263 PAINT, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

4098-71-9	isophorone di-isocyanate
-----------	--------------------------

· **Section 313 (Specific toxic chemical listings):**

1344-28-1	aluminium oxide
-----------	-----------------

1330-20-7	xylene
-----------	--------

4098-71-9	isophorone di-isocyanate
-----------	--------------------------

95-63-6	1,2,4-trimethylbenzene
---------	------------------------

822-06-0	hexamethylene-di-isocyanate
----------	-----------------------------

111-76-2	2-butoxyethanol
----------	-----------------

· **TSCA (Toxic Substances Control Act):**

tert-butyl acetate

titanium dioxide

Hexane, 1,6-diisocyanato-, homopolymer

Stoddard solvent

Homopolymer of IPDI

methyl amyl ketone

Solvent naphtha (petroleum), light arom.

silicon dioxide, chemically prepared

· **TSCA new (21st Century Act) (Substances not listed)**

7429-90-5	aluminium powder (stabilised)
-----------	-------------------------------

53880-05-0	Homopolymer of IPDI
------------	---------------------

· **Proposition 65**

· **Chemicals known to cause cancer:**

13463-67-7	titanium dioxide
------------	------------------

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 9)

1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
95-63-6	1,2,4-trimethylbenzene	II
111-76-2	2-butoxyethanol	NL

· **TLV (Threshold Limit Value established by ACGIH)**

titanium dioxide	A4
Carbon black	A4
aluminium oxide	A4
xylene	A4
zirconium oxide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

titanium dioxide

Hexane, 1,6-diisocyanato-, homopolymer

Naphtha (petroleum), heavy alkylate

isophorone di-isocyanate

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 10)

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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO ₂ , powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department

- **Contact:** HS REG.DEPART.REG.SS

- **Date of preparation / last revision** 01/01/2021 / -

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: MC-LUSTER 100

(Contd. of page 11)

*TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Flam. Liq. 2: Flammable liquids – Category 2**Resp. Sens. 1: Respiratory sensitisation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 1B: Carcinogenicity – Category 1B*

US