Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

1 Identification

· **Product identifier**

· **Trade name: F100 Medium Blue Polyol**

· **Article number:** I022729
· **Application of the substance / the mixture** Polyurethane resin

· **Details of the supplier of the safety data sheet**
Sika Advanced Resins, US
EHS Department
· **Manufacturer/Supplier:**
Supplier's Name: Sika Advanced Resins, US
Headquarters:
30800 Stephenson Hwy
Madison Heights, MI 48071
USA

advancedresins.ehs@us.sika.com

· **Information department:** Product safety department
· **Emergency telephone number:**
During normal opening times: +1 (248) 588-2270
CHEMTREC 24-hour Emergency: +1 (800) 424-9300

*
2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS08 Health hazard

Carc. 2	H351	Suspected of causing cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

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

GHS08

· **Signal word** Danger

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 1)

· **Hazard-determining components of labeling:**
Diisopropyl naphthalene
Blue reactive pigment
Solvent naphtha (petroleum), heavy arom.
ethylbenzene
· **Hazard statements**
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **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.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 2)

· **Dangerous components:**

CAS: 38640-62-9	Diisopropyl naphthalene	5-10%
CAS: 25214-63-5	Alkoxylated amine	≥5-<10%
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha (petroleum), heavy arom.	1-5%
	Blue reactive pigment	1-5%
CAS: 91-20-3 EINECS: 202-049-5	naphthalene	≥0.25-<1%

*
4 First-aid measures

· **Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **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.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:**
Mouth respiratory protective device.
Wear self-contained respiratory protective device.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

*
6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 3)

· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
38640-62-9	Diisopropyl naphthalene	5.6 mg/m³
91-20-3	naphthalene	15 ppm

· **PAC-2:**		
38640-62-9	Diisopropyl naphthalene	61 mg/m³
91-20-3	naphthalene	83 ppm

· **PAC-3:**		
38640-62-9	Diisopropyl naphthalene	370 mg/m³
91-20-3	naphthalene	500 ppm

*
7 Handling and storage

· **Handling:**
· **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 respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **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.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 4)

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

91-20-3 naphthalene	
PEL	Long-term value: 50 mg/m³, 10 ppm
REL	Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm
TLV	Long-term value: 52 mg/m³, 10 ppm Skin; BEI

· **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.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **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.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 5)

· **Eye protection:**

Tightly sealed goggles

*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	Blue
· **Odor:**	Mild
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	290 °C (554 °F)
· **Flash point:**	>94 °C (>201.2 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not determined.
· **Density at 20 °C (68 °F):**	1.64 g/cm³ (13.69 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.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 6)

Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	0.6 %
VOC content:	0.59 % 9.7 g/l / 0.08 lb/gal
Solids content:	66.0 %
· **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:** No further relevant information available.
· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

*
11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
Oral	LD50	743 mg/kg (rat)

38640-62-9 Diisopropyl naphthalene		
Oral	LD50	>4,000 mg/kg (mouse)
Dermal	LD50	>4,000 mg/kg (rat)
Inhalative	LC50/6 h (dynamic)	>5.6 mg/l (rat) (Test Guideline 402)
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 7)

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
	Zeolite (Crystalline aluminosilicate)	3
91-20-3	naphthalene	2B
1330-20-7	xylene	3

· **NTP (National Toxicology Program)**		
91-20-3	naphthalene	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
71-43-2	benzene

*
12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
38640-62-9 Diisopropyl naphthalene	
48 hr EC50	0.16 mg/l (daphnia)
96 hr LC50	0.5 mg/l (Fish)
72 or 96 hr ErC50	0.15 mg/l (Algea)

· **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.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms
· **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.

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

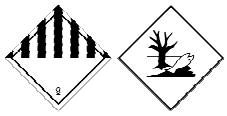
(Contd. of page 8)

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

*

14 Transport information

· **UN-Number**	
· **DOT**	not regulated
· **IMDG, IATA**	UN3082
· **UN proper shipping name**	
· **DOT**	not regulated
· **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene), MARINE POLLUTANT
· **IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene)
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	not regulated
· **IMDG, IATA**	



· **Class**	9 Miscellaneous dangerous substances and articles
· **Label**	9
· **Packing group**	
· **DOT**	not regulated
· **IMDG, IATA**	III
· **Environmental hazards:**	Product contains environmentally hazardous substances: Diisopropyl naphthalene
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 9)

· **Transport/Additional information:**

· **IMDG**

· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIISOPROPYL NAPHTHALENE), 9, III

*
15 Regulatory information

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

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

None of the ingredients is listed.

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

91-20-3	naphthalene
1330-20-7	xylene

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

1317-65-3	Calcium Carbonate	ACTIVE
65997-17-3	Fibrous Glass	ACTIVE
35176-07-9	Polyether Polyol	ACTIVE
38640-62-9	Diisopropyl naphthalene	ACTIVE
25214-63-5	Alkoxylated amine	ACTIVE
64742-94-5	Solvent naphtha (petroleum), heavy arom.	ACTIVE
	Zeolite (Crystalline aluminosilicate)	ACTIVE
	Blue reactive pigment	ACTIVE
91-20-3	naphthalene	ACTIVE
	1,4-Benzenedicarboxylic acid, 1,4-bis(2-ethylhexyl) ester	ACTIVE
	Polymethylalkylsiloxane	ACTIVE
1330-20-7	xylene	ACTIVE
111-46-6	2,2'-oxybisethanol	ACTIVE
147-14-8	Phthalocyanine Blue	ACTIVE

· **Chemicals regulated by TSCA Section 12(b)**

None of the ingredients is listed.

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 Reviewed on 01/06/2020

Trade name: F100 Medium Blue Polyol

(Contd. of page 10)

· **Chemical regulated by TSCA 5(a)(2)rule:**
None of the ingredients is listed.

· **Hazardous Air Pollutants**

91-20-3	naphthalene
1330-20-7	xylene
100-41-4	ethylbenzene

· **Proposition 65**

· **Chemicals known to cause cancer:**

1317-65-3	Calcium Carbonate
91-20-3	naphthalene
14808-60-7	Quartz (SiO2)
100-41-4	ethylbenzene
98-82-8	cumene
71-43-2	benzene

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

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

71-43-2	benzene

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

71-43-2	benzene
108-88-3	toluene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

91-20-3	naphthalene	C, CBD

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

91-20-3	naphthalene	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Listed in CWC Regulations**
None of the ingredients is listed.

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

GHS08

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 11)

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Diisopropyl naphthalene
Blue reactive pigment
Solvent naphtha (petroleum), heavy arom.
ethylbenzene

· **Hazard statements**
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

· **Precautionary statements**
Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.

· **Date of preparation / last revision** 01/06/2020 / 5

· **Abbreviations and acronyms:**
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
TLV: Threshold Limit Value

(Contd. on page 13)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/06/2020 *Reviewed on 01/06/2020*

Trade name: F100 Medium Blue Polyol

(Contd. of page 12)

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Carc. 2: Carcinogenicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· **** Data compared to the previous version altered.***