

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

## 1 Identification

- **Product identifier**
- **Trade Name:** MICA MAX 74050
- **Article number:** 74050
- **Application of the substance / the mixture** Impregnation Resin
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Von Roll USA, Inc.  
200 Von Roll Drive  
SCHENECTADY, NY 12306  
USA
- **Information department:** Environmental Health and Safety Department
- **Emergency telephone number:**  
During normal opening hours (day-time): +1 (518) 344-7100  
Mahoney 24 hours Emergency Message Service to contact EHS: +1 (518) 793-7788  
For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC :+1 703-741-5970 / 1-800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3      H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 2      H341 Suspected of causing genetic defects.

Carc. 2      H351 Suspected of causing cancer.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H332 Harmful if inhaled.

Skin Irrit. 2      H315 Causes skin irritation.

Eye Irrit. 2A      H319 Causes serious eye irritation.

Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H335 May cause respiratory irritation.

Aquatic Acute 2      H401 Toxic to aquatic life.

- **Label elements**

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

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 1)

## · Hazard pictograms



GHS02 GHS07 GHS08 GHS09

· Signal word *Warning*

## · Hazard-determining components of labeling:

*oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer vinyltoluene*

*1,2-dihydroxybenzene*

*phenol, polymer with formaldehyde, glycidyl ether*

## · Hazard statements

*H226 Flammable liquid and vapor.*

*H332 Harmful if inhaled.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H317 May cause an allergic skin reaction.*

*H341 Suspected of causing genetic defects.*

*H351 Suspected of causing cancer.*

*H335 May cause respiratory irritation.*

*H401 Toxic to aquatic life.*

*H411 Toxic to aquatic life with long lasting effects.*

## · 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.*

*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*

*P264 Wash thoroughly after handling.*

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

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

*P273 Avoid release to the environment.*

*P280 Wear protective gloves/protective clothing/eye protection/face protection.*

*P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P308+P313 IF exposed or concerned: Get medical advice/attention.*

*P312 Call a poison center/doctor if you feel unwell.*

*P321 Specific treatment (see on this label).*

*P362+P364 Take off contaminated clothing and wash it before reuse.*

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

*P337+P313 If eye irritation persists: Get medical advice/attention.*

*P363 Wash contaminated clothing before reuse.*

*P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*P391 Collect spillage.*

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

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

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 2)

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:**

25085-99-8	oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	>50–≤100%
25013-15-4	vinyltoluene	>10–<20%
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	10%
9003-35-4	formaldehyde, oligomeric reaction products with phenol	>2.5–≤10%
120-80-9	1,2-dihydroxybenzene	>2.5–<10%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
 Immediately remove any clothing soiled by the product.  
 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 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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 4)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 3)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.
- **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:

28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	30 mg/m <sup>3</sup>
120-80-9	1,2-dihydroxybenzene	15 ppm
108-95-2	phenol	15 ppm
123-31-9	1,4-dihydroxybenzene	3 mg/m <sup>3</sup>

### · PAC-2:

28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	330 mg/m <sup>3</sup>
120-80-9	1,2-dihydroxybenzene	96 ppm
108-95-2	phenol	23 ppm
123-31-9	1,4-dihydroxybenzene	20 mg/m <sup>3</sup>

### · PAC-3:

28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	2,000 mg/m <sup>3</sup>
120-80-9	1,2-dihydroxybenzene	570 ppm
108-95-2	phenol	200 ppm
123-31-9	1,4-dihydroxybenzene	120 mg/m <sup>3</sup>

US

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 4)

## 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 ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 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.
- **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.

### 25013-15-4 vinyltoluene

PEL	Long-term value: 480 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 480 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm
	A4

### 120-80-9 1,2-dihydroxybenzene

REL	Long-term value: 20 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 5 ppm Skin, A3

- **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.  
 Avoid contact with the eyes and skin.
- **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.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 5)

· **Protection of hands:**



Protective gloves

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:**

<b>Form:</b>	Fluid
<b>Color:</b>	Amber colored
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** 52.7 °C (126.9 °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:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1.12637 g/cm<sup>3</sup> (9.39956 lbs/gal)

· **Relative density** Not determined.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 6)

· 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.
· Solvent content:	
Organic solvents:	18.2 %
VOC content:	17 %
	191.0 g/l / 1.59 lb/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:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

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

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

### ATE (Acute Toxicity Estimate)

Oral	LD50	10,010 mg/kg (ATE)
Dermal	LD50	7,099 mg/kg (ATE)
Inhalative	LC50/4 h	7.79–8.14 mg/l

### 25085-99-8 oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer

Oral	LD50	15,000 mg/kg (rat)
		23,000 mg/kg (rabbit)

### 9003-35-4 formaldehyde, oligomeric reaction products with phenol

Inhalative	LC50/4 h	5–12 mg/l (fis)
------------	----------	-----------------

### 120-80-9 1,2-dihydroxybenzene

Oral	LD50	300 mg/kg (ATE)
		260 mg/kg (rat)
Dermal	LD50	600 mg/kg (ATE)
		800 mg/kg (rabbit)

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 7)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
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)**

25013-15-4	vinyltoluene	3
120-80-9	1,2-dihydroxybenzene	2B
108-95-2	phenol	3
123-31-9	1,4-dihydroxybenzene	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

<b>9003-35-4 formaldehyde, oligomeric reaction products with phenol</b>	
EC50	6.6 mg/kg (da)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for 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 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 8)

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

## 14 Transport information

· **UN-Number**  
 · **DOT, IMDG, IATA** UNI866

· **UN proper shipping name**  
 · **DOT, IATA** Resin solution  
 · **IMDG** RESIN SOLUTION

· **Transport hazard class(es)**  
 · **DOT**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**  
 · **DOT, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 30  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 60 L  
 On cargo aircraft only: 220 L

· **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

(Contd. on page 10)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

Trade Name: MICA MAX 74050

(Contd. of page 10)

## · Hazard pictograms



GHS02 GHS07 GHS08 GHS09

· Signal word *Warning*

## · Hazard-determining components of labeling:

*oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer vinyltoluene*

*1,2-dihydroxybenzene*

*phenol, polymer with formaldehyde, glycidyl ether*

## · Hazard statements

*H226 Flammable liquid and vapor.*

*H332 Harmful if inhaled.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H317 May cause an allergic skin reaction.*

*H341 Suspected of causing genetic defects.*

*H351 Suspected of causing cancer.*

*H335 May cause respiratory irritation.*

*H401 Toxic to aquatic life.*

*H411 Toxic to aquatic life with long lasting effects.*

## · 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.*

*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*

*P264 Wash thoroughly after handling.*

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

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

*P273 Avoid release to the environment.*

*P280 Wear protective gloves/protective clothing/eye protection/face protection.*

*P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P308+P313 IF exposed or concerned: Get medical advice/attention.*

*P312 Call a poison center/doctor if you feel unwell.*

*P321 Specific treatment (see on this label).*

*P362+P364 Take off contaminated clothing and wash it before reuse.*

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

*P337+P313 If eye irritation persists: Get medical advice/attention.*

*P363 Wash contaminated clothing before reuse.*

*P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*P391 Collect spillage.*

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

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

(Contd. on page 12)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/22/2022

Reviewed on 12/09/2021

**Trade Name: MICA MAX 74050**

(Contd. of page 11)

P405 Store locked up.  
 P501 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.

· **Relevant phrases** Periodo de validez: 90 días a temperatura ambiente y 180 días a temperatura ambiente fría.

· **Department issuing SDS:** Environment Health and Safety Department

· **Contact:** Hitesh Surti

· **Date of preparation / last revision** 12/09/2021 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* Data compared to the previous version altered.**