# SAFETY DATA SHEET



Version #: 1,0

Issue date: 07-July-2023 Revision date: 07-July-2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

Nexar™ MD9214

of the mixture

Registration number

Synonyms None. SDS number 15985

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use Coating.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

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Name Kraton Corporation

Address 15710 John F Kennedy Blvd., Suite 300

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EU

Website www.Kraton.com

1.4. Emergency telephone

number

CHEMTREC - Domestic: +1 800 424 9300
CHEMTREC - International: +1 703 527 3887
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## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye damage.

2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

H318 Causes serious eye damage.

**Precautionary statements** 

Prevention

P280 Wear eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

Storage Store in a dry area.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having

endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Benzene,	<100	1637665-77-0	-	-	
1-(1,1-dimethylethyl)-4-ethenyl-,		-			
polymer with ethenylbenzene and					
2-methyl-1,3-					

butadiene, sulfonated

Classification: Eye Dam. 1;H318

## List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Get medical attention if symptoms occur. Not likely, due to the form of the product.Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result.

4.3. Indication of any immediate medical attention and special treatment needed

delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. Upon decomposition, this product emits

carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Wear suitable protective equipment. Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be

advised if significant spillages cannot be contained. Use personal protection recommended in

Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk, Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Static electricity and formation of sparks must be prevented. Do not get this material in contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices, Follow all SDS/label precautions even after container is emptied because they may retain product residues.

7.2. Conditions for safe storage, including any incompatibilities

Store indoor. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. To maintain product quality, do not store in heat or direct sunlight. Keep in a cool, well-ventilated place. Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Use care in handling/storage. Do not store outside. Care should be taken when storing and handling this product. Apart from the specific nature of the polymer product, conditions such as humidity, sunlight and temperature have an influence on the way the product behaves during storage and handling. Special attention should be paid to avoid inappropriate stacking of palletised bags or other package units. Indeed, polymer products may be dimensionally unstable under certain conditions. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletised bags. Avoid storage under pressure or at elevated temperatures to minimise particulate clustering.

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

## **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s). Follow standard monitoring procedures.

Recommended monitoring

procedures

(DNELs)

Not available.

Predicted no effect

Derived no effect levels

Not available.

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

## Individual protection measures, such as personal protective equipment

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

- Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality

features and is different from one producer to the other. Wear suitable gloves tested to EN374. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Recommended gloves include rubber, neoprene, nitrile or viton. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness should be typically greater than 0.35 mm. This recommendation is advisory only. It may not be appropriate for all workplaces. It should not be construed as offering an approval for any specific use scenario. A hazard

assessment should be conducted prior to use to ensure suitability of gloves for specific work

environments and processes.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Eye wash fountain and emergency showers are recommended. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or

smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Solid.

Form Granular. Solid.

Colour Brown ~ Dark brown.

Odour Mild.

Melting point/freezing point Boiling point or initial boiling

point and boiling range

Not available. Not available.

Flammability
Not available.
Flash point
Not available.
Auto-ignition temperature
Not available.
Decomposition temperature
PH
Not available.

Kinematic viscosity

Not available.

Solubility

Solubility (water) Practically insoluble in water.

Partition coefficient

(n-octanol/water) (log value)

Not available.

Vapour pressure Not available.

Density and/or relative density

Relative density > 1,03 - < 1,13 g/ml

Vapour density Not available.

Particle characteristics Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

**9.2.2. Other safety**No relevant additional information available. **characteristics** 

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Strong oxidising agents. Contact with incompatible materials. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidising agents.

Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, 10.6. Hazardous

water and other products of combustion. decomposition products

## **SECTION 11: Toxicological information**

Occupational exposure to the substance or mixture may cause adverse effects. **General information** 

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Prolonged skin contact may cause temporary irritation. Skin contact

Eye contact Causes serious eye damage.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred **Symptoms** 

vision. Permanent eye damage including blindness could result.

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Based on available data, the classification criteria are not met.

Components **Test Results Species** 

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer with ethenylbenzene and 2-methyl-1,3butadiene, sulfonated (CAS 1637665-77-0)

Acute

Oral

Albino rat > 5000 mg/kg, 14 days

#### Skin corrosion/irritation

#### Irritation Corrosion - Skin

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer

with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

OECD 404, Non-irritating to mildly irritating to the skin of

rabbits.

Result: Negative.

Species: Albino rabbit

Organ: Skin

Test Duration: 72 hours

Notes: US EPA OCSPP 870,2500

Serious eye damage/eye Causes serious eye damage.

Maximum group mean score

irritation

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer

with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

**OECD 405** Result: Positive.

Species: Albino rabbit

Organ: Eye

Test Duration: 17 days Severity: Extremely irritating Notes: US EPA OCSPP 870,2400

Based on available data, the classification criteria are not met. Respiratory sensitisation

Skin sensitisation Not classified.

Sensitisation

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer

with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

**OECD 406** Result: Negative. Species: Guinea pig

Organ: Skin

Test Duration: 3 weeks Severity: 0% positives Notes: OCSPP 840,2600

**Skin Sensitisation** 

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer

with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

Not classified.

Tests for irritation and skin sensitization

Result: Negative. Notes: ISO 10993-10

15985 Version #: 1,0 Revision date: 07-July-2023 Issue date: 07-July-2023

Material name: Nexar™ MD9214

Germ cell mutagenicity

Mutagenicity

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer

with ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

Ames Assay

Result: Not mutagenic in Ames Test. Species: Bacteria (Pseudomonas putida)

Notes: OECD 471

In vivo Cytogenetics (Mouse Micronucleus)

Result: Not clastogenic

Species: Mouse, house (Mus musculus)

Notes: OECD 474

In-Vitro Mammalian Mouse Lymphoma

Result: Not mutagenic. Species: Mouse Notes: OECD 490

Carcinogenicity

No data available to indicate product or any components present at greater than 0.1% are

carcinogenic.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Mixture versus substance information

Not an aspiration hazard. No information available.

11.2. Information on other hazards

**Endocrine disrupting** 

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

**SECTION 12: Ecological information** 

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species **Test Results** 

Rainbow trout

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer with ethenylbenzene and 2-methyl-1,3butadiene, sulfonated (CAS 1637665-77-0)

**Aquatic** 

Acute

LC50 Fish

> 1000 ma/l. 96 hr

12.2. Persistence and

degradability

Not inherently biodegradable.

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-, polymer with

ethenylbenzene and 2-methyl-1,3-

butadiene, sulfonated

0 % OECD ENV/MC/CHEM (9 Result: Not readily biodegradable.

Species: Activated sludge of a predominantly domestic

Test Duration: 28 days

**12.3. Bioaccumulative potential** No data available.

Partition coefficient n-octanol/water (log Kow) Not available.

No data available.

12.5. Results of PBT and vPvB

assessment

12.4. Mobility in soil

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

12.6. Endocrine disrupting

properties

(EC) No 1907/2006, Annex XIII.

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SDS EU

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### **ADR**

**14.1. UN number**Not regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

Hazard No. (ADR) Not assigned.
Tunnel restriction code Not assigned.

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

**RID** 

**14.1. UN number**Not regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

#### ADN

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

## IATA

**14.1. UN number**Not regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

## **IMDG**

**14.1. UN number** Not regulated as dangerous goods.

**14.2. UN proper shipping** Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

14.4. Packing group Not assigned.

14.5. Environmental hazards

Marine pollutant

No.

EmS Not assigned.

14.6. Special precautions Not assigned.

for user

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

according to Annex II of MARPOL 73/78 and the IBC

Code

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

## Other EU regulations

#### Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

Water hazard class

assessment

No Chemical Safety Assessment has been carried out.

AwSV Non-hazardous to water

# **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

Material name: Nexar™ MD9214 SDS EU

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

#### References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H318 Causes serious eye damage.

**Revision information** 

**Training information** 

Disclaimer

#### None

Not available.

Follow training instructions when handling this material.

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