# SAFETY DATA SHEET



Version #: 4.0

Issue date: 24-January-2017 Revision date: 19-December-2023 Supersedes date: 18-July-2022

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

1.1. Product identifier

Name of the substance Polyamide resin Trade name of the UNI-REZ™ 2934

substance

Registration number

**Synonyms** None. 8777 SDS number

200000000322 **Product code** 

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

Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation Identified uses

[mixing] of preparations and/or re-packaging (excluding alloys).

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name Kraton Chemical B.V.

**Address** Transistorstraat 16, 1322 CE Almere, The Netherlands

**Phone** +31 36 546 2800

**Email address** regulatory.eu@kraton.com EU NCEC +44 1865 407 333 1.4. Emergency telephone

number

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

The substance 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

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

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

Contains: Polyamide resin

Hazard pictograms None. Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

**Precautionary statements** 

Observe good industrial hygiene practices. Prevention

Response Wash hands after handling.

Store away from incompatible materials. Storage

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

Supplemental label information None.

2.3. Other hazards May form explosible dust-air mixture if dispersed. 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.

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

#### 3.1. Substances

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyamide resin	99-100	Proprietary	-	-	
Classificatio	n· -	-			

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

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

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

# **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 Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion 4.2. Most important symptoms Dusts may irritate the respiratory tract, skin and eyes.

and effects, both acute and

delayed

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

# **SECTION 5: Firefighting measures**

General fire hazards May form combustible dust concentrations in air.

5.1. Extinguishing media

Suitable extinguishing

media

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

carefully to avoid creating airborne dust.

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

High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapour may cause flash fire. 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

In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move containers from fire area if you can do so without risk.

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

Wear appropriate personal protective equipment.

personnel

For emergency responders Keep unnecessary personnel away.

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

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### 6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use.

6.4. Reference to other sections

Not available.

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

# 7.1. Precautions for safe handling

Minimise dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust 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.

4 mg/m3

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at ambient temperature and atmospheric pressure.

Not available. 7.3. Specific end use(s)

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

### 8.1. Control parameters

Dust

Occupational exposure limits

Additional components	Ordinance (GwV), BGBI. II, no. 184/2001 Type	Value	Form
Dust	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Belgium. OEL. Exposure Chemical agents, as ame	Limit Values to Chemical Substances anded	at Work, Code of Well-being	at work, Book VI, Title 1 -
Additional components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Finland			
Additional components	Туре	Value	
Dust	TWA	5 mg/m3	
		10 mg/m3	
France. Threshold Limit	Values (VLEP) for Occupational Exposi	ure to Chemicals in France, I	NRS ED 984
Additional components	Туре	Value	Form
Dust	VME	5 mg/m3	Respirable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m3	Inhalable fraction.
Regulatory status:	Regulatory binding (VRC)		
9	(advisory OELs). Commission for the I	nvestigation of Health Hazar	ds of Chemical Compoun

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TWA

Inhalable dust.

Additional components	t Values in the Ambient Air at the Workpl Type	Value	Form
Dust	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Iceland. OELs. Regulation Additional components	390/2009 on Pollution Limits and Measu Type	res to Reduce Pollution at Value	the Workplace, as amen Form
Dust	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Ireland. OELVs, Schedules Additional components	s 1 & 2, Code of Practice for Chemical Ag Type	gents and Carcinogens Reg Value	gulations Form
Dust	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Latvia OFLs Occupations	al Exposure Limits of Chemical Substanc	cas at Workniaca (Rag. No.	325/2007   V 80 Anno
1), as amended	a Exposure Limits of Chemical Substant	ces at workplace (Neg. 140	. 323/ 2007, E.V. 00, AIIIIe
Additional components	Туре	Value	Form
Dust	TWA	5 mg/m3	Dust.
Lithuania. OELs. Occupati V-824/A1-389), as amende	ional Exposure Limit Values for Chemica d	l Substances (Hygiene No	rm HN 23:2011; Order No
Additional components	Туре	Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Netherlands			
Additional components	Туре	Value	Form
 Dust	TWA (MAC)	5 mg/m3	Respirable dust.
2.00	,	10 mg/m3	Total dust.
Siovakia. OELS. Maximum Annex 1, Table 1, as amen Additional components	permissible exposure limits for chemica ided) Type	Value	Regulation No 355/2006, Form
Dust	TWA	10 mg/m3	Dust.
	onal Exposure Limits of Chemicals at Wo at Work, Annex I), as amended	orkplace (Reg. on Protectio	on of Workers from Risks
Additional components	Туре	Value	Form
Dust	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Spain. OELs. INSST, Límito (VLAs)	es de Exposición Profesional Para Agent	tes Químicos, Table 1-Valo	·
Additional components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Switzerland. SUVA Grenzw Additional components	verte am Arbeitsplatz: Aktuelle MAK-Wer Type	te Value	Form
	TWA	3 mg/m3	Respirable dust.
Dust	• • • • •	•	Inhalable dust.
Dust		10 ma/m:3	
UK. OELs. Workplace Exp	osure Limits (WELs) (EH40/2005 (Fourth		
UK. OELs. Workplace Exp Additional components	Туре	Edition 2020)), Table 1 Value	Form
UK. OELs. Workplace Exp		Edition 2020)), Table 1 Value 4 mg/m3	Form Respirable dust.
UK. OELs. Workplace Exp Additional components	Туре	Edition 2020)), Table 1 Value	Form
UK. OELs. Workplace Exp Additional components	Туре	Edition 2020)), Table 1 Value 4 mg/m3 10 mg/m3	Form Respirable dust.
UK. OELs. Workplace Exp Additional components Dust	Type	Edition 2020)), Table 1 Value  4 mg/m3 10 mg/m3 he ingredient(s).	Form Respirable dust.

Material name: UNI-REZ™ 2934 8777 Version #: 4,0 Revision date: 19-December-2023 Issue date: 24-January-2017 Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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.

### Individual protection measures, such as personal protective equipment

**General information** 

Use personal protective equipment as required. Personal protection equipment should be chosen 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).

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

- Other

Wear suitable protective clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

When using, do not eat, drink or smoke. 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. Eye wash fountain and emergency showers are recommended.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases. 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

Solid. **Physical state** Granular. **Form** Colour Amber. Odour Mild.

Melting point/freezing point **Boiling point or initial boiling**  Not available. Not available.

point and boiling range

**Flammability** Not available. Upper/lower flammability or explosive limits

Explosive limit - lower (%) Explosive limit - upper

Not available.

(%)

Not available.

Flash point

271,0 °C (519,8 °F) Cleveland open cup Data is for similar product.

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Kinematic viscosity Not available.

Solubility

<0.1 % at 25°C Solubility (water) Partition coefficient Not available.

(n-octanol/water) (log value)

Vapour pressure <0,001 mm Hg at 20°C

Density and/or relative density

970,00 kg/m3 Density

Relative density 0,97 at 25°C/25°C (water=1)

Not available. Vapour density 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 characteristics

Chemical family

Evaporation rate

O n-BuAc=1 estimated

Percent volatile

Softening point

Viscosity

Polyamide resin

0 n-BuAc=1 estimated

102 °C (215,6 °F) Ring & Ball

960 cP Brookfield at 160°C

Weighted solids 100 %

# **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.

**10.4. Conditions to avoid** Strong oxidising agents. Keep away from heat, sparks and open flame. Contact with incompatible

materials. Minimise dust generation and accumulation.

10.5. Incompatible materials

10.6. Hazardous

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

**OECD 401** 

**decomposition products** water and other products of combustion.

# **SECTION 11: Toxicological information**

General information Not available.

Information on likely routes of exposure

**Inhalation** Dust may irritate respiratory system.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Strong oxidising agents.

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

occupational exposure.

**Symptoms** Dusts may irritate the respiratory tract, skin and eyes.

#### 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

Polyamide resin

Acute
Oral

LD50

Rat

Path Results

Test Results

Test Results

Fellows Results

Test Results

Test Results

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

**Respiratory sensitisation** Not available.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

Sensitisation

Polyamide resin Buehler Test, Not a skin sensitizer.; Data is for similar

product.; Result: Negative Species: Guinea pig Organ: Skin

Germ cell mutagenicity

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

carcinogenic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

Specific target organ toxicity -

single exposure

Not available.

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Specific target organ toxicity -

repeated exposure

Not available.

**Aspiration hazard** 

Not available.

Mixture versus substance

information

No information available.

#### 11.2. Information on other hazards

**Endocrine disrupting** 

properties

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 Not available.

# **SECTION 12: Ecological information**

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Polyamide resin			
Acute			
	EC50	Bacteria (Pseudomonas putida)	> 1000 mg/l, 16 hr >> Water solubility; Data is for similar product.;
Aquatic			
Crustacea	NOEC	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr Data is for similar product.; OECD 202;
Acute			
Crustacea	EL50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr >> Water solubility; Data is for similar product.; OECD 202;

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

No data available. 12.3. Bioaccumulative potential Partition coefficient

n-octanol/water (log Kow)

Not available.

**Bioconcentration factor (BCF)** Not available. No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

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

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

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.

12.7. Other adverse effects 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

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

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

Disposal instructions).

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

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

disposal.

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

disposal company.

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

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

Dispose in accordance with all applicable regulations. Special precautions

### **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.

Material name: UNI-REZ™ 2934 8777 Version #: 4,0 Revision date: 19-December-2023 Issue date: 24-January-2017 Subsidiary hazard -

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

**14.4. Packing group** - **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 hazard -14.4. Packing group -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 hazard -14.4. Packing group -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 hazard -14.4. Packing group -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 hazard 14.4. Packing group 14.5. Environmental hazards
Marine pollutant No

EmS Not assigned.

14.6. Special precautions

for user

14.7. Transport in bulk Not applicable.

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

Material name: UNI-REZ™ 2934

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.

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Not assigned.

SDS EU

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 - Conditions of restriction given for the associated entry number should be considered

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.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The

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

as amended.

National regulations Follow national regulation for work with chemical agents.

France regulations

France INRS Table of Occupational Diseases

Not regulated.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

Water hazard class

AwSV WGK1

#### **SECTION 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot applicable.

method leading to the classification of mixture

Full text of any statements,

None.

which are not written out in full

under sections 2 to 15

**Revision information** Product and Company Identification: Product and Company Identification

SECTION 16: Other information: Disclaimer

**Training information** Follow training instructions when handling this material.

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#### **Disclaimer**

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