

SAFETY DATA SHEET

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 substance	UNI-REZ™ 2620
Identification number	-
Registration number	-
Synonyms	None.
SDS number	8767
Product code	2000000312
Issue date	04-February-2017
Version number	3,0
Revision date	25-October-2022
Supersedes date	20-September-2017
1.2. Relevant identified uses of t	the substance or mixture and uses advised against
Identified uses	Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).
Uses advised against	None known.
1.3. Details of the supplier of the	e 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
1.4. Emergency telephone number	EU NCEC +44 1865 407 333

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.

Static charges generated by emptying package in or near flammable vapour may cause flash fire.		
EC) No. 1272/2008 as amended		
None.		
None.		
The substance does not meet the criteria for classification.		
Observe good industrial hygiene practices.		
Wash hands after handling.		
Store away from incompatible materials.		
Dispose of waste and residues in accordance with local authority requirements.		
None.		
Static charges generated by emptying package in or near flammable vapour may cause flash fire. 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.		

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	
Classif	ication: -	
List of abbreviations and symbol CLP: Regulation No. 1272/200 DSD: Directive 67/548/EEC. M: M-factor vPvB: very persistent and very PBT: persistent, bioaccumulat #: This substance has been a	y bioaccumulative substance.	
SECTION 4: First aid meas	sures	
General information	Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
4.1. Description of first aid meas	sures	
Inhalation	If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.	
Skin contact	If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.	
Ingestion	Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconsious person.	
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.	
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.	
SECTION 5: Firefighting m	leasures	

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General fire hazards	Static charges generated by emptying package in or near flammable vapour may cause flash fire.	
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. 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 personnel	Wear appropriate personal protective equipment.
For emergency responders	Keep unnecessary personnel away. 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	Collect and dispose of spillage as indicated in section 13. Attempt to reclaim the free product, if this is possible.
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	SECTION 7: Handling and storage		
7.1. Precautions for safe handling	Keep away from sources of ignition - No smoking. Avoid heat, sparks, open flames and other ignition sources. Do not smoke. Ground container and transfer equipment to eliminate static electric sparks. Avoid contact with hot material. Avoid breathing vapour from heated material. 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	Keep away from heat, sparks and open flame. Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).		
7.3. Specific end use(s)	Not available.		
SECTION 8: Exposure con	itrols/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).		
Recommended monitoring procedures	Follow standard monitoring procedures.		
Derived no effect levels (DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. 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	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 a face shield when working with molten material. 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 and gloves. For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.		
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	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

Physical state	Solid.	
Form	Pellets.	
Colour	Amber.	
Odour	Amine-like.	
Melting point/freezing point	Not available.	
Boiling point or initial boiling point and boiling range	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	

Flammability limit - upper (%)	Not available.
Flash point	271,0 °C (519,8 °F) Cleveland open cup Data is for similar product.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	Not available.
Solubility(ies)	
Solubility (water)	< 0,1 % at 25°C
Partition coefficient (n-octanol/water)	Not available.
Vapour pressure	< 0,001 mm Hg at 20°C
Vapour density	Not available.
Relative density	0,97 at 25°C/25°C (water=1)
Particle characteristics	Not available.
Other safety characteristics	
Chemical family	Polyamide resin
Density	970,00 kg/m3
Evaporation rate	0 n-BuAc=1 estimated
Percent volatile	0 % by weight estimated
Softening point	179 °C (354,2 °F) Ring & Ball
Viscosity	2750 cP Brookfield at 205°C
Weighted solids	100 %

SECTION 10: Stability and reactivity

10.1. Reactivity 10.2. Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. 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. Heat, flames and sparks. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

SECTION 11: Toxicological information

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General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes o	f exposure	
Inhalation	Inhalation of vapours/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.	
Skin contact	Molten material will produce thermal burns.	
Eye contact	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.	
11.1. Information on toxicological effects		
Acute toxicity	Based on available data, the classification criteria are not met.	

Product	Species	Test Results
UNI-REZ™ 2620		
Acute		
Dermal		
LD50	Rabbit	> 6000 mg/kg Data is for similar product.;
Oral		
LD50	Rat	> 20000 mg/kg Data is for similar product.;

Components	Species		Test Results
Polyamide resin			
<u>Acute</u>			
Oral			
LD50	Rat		> 5000 mg/kg, 14 days At this dose no death occurred.;Data is for similar product.; OECD 401
* Estimates for product may	be based on add	ditional component data not shown.	
Skin corrosion/irritation	Molten mater	ial will produce thermal burns.	
Serious eye damage/eye irritation	Molten material will produce thermal burns. Fumes released during thermal processing may ca eye irritation.		
Respiratory sensitisation	Not a respira	tory sensitizer.	
Skin sensitisation	This product	is not expected to cause skin sensitis	ation.
Sensitisation Polyamide resin		Buehler Test, Not a product.; Result: Negative Species: Guinea pi Organ: Skin	skin sensitizer.; Data is for similar J
Germ cell mutagenicity	No data avail carcinogenic.	able to indicate product or any compo	nents present at greater than 0.1% are
Carcinogenicity	-	is not considered to be a carcinogen l	y IARC, ACGIH, NTP, or OSHA.
Hungary. 26/2000 EüM Ord (as amended) Not listed.	inance on prote	ection against and preventing risk r	elating to exposure to carcinogens at work
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	ł.	
Aspiration hazard	Not an aspira	ation hazard.	
Mixture versus substance information	No informatio	on available.	
11.2. Information on other haza	ards		
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		
12.1. Toxicity			zardous. However, this does not exclude the armful 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;
<i>Acute</i> Crustacea	EL50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr >> Water solubility; Data is for similar product.; OECD 202;
* Estimates for product may 12.2. Persistence and degradability		ditional component data not shown. ailable on the degradability of this pro	duct.
12.3. Bioaccumulative potentia	I No data avoi	able	
12.3. Divaccumulative potentia			

Not available.

Partition coefficient

n-octanol/water (log Kow)

12.4. Mobility in soil	No data available.
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

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.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

	14.1. UN number	Not available.
	14.2. UN proper shipping	Not available.
	name	
	14.3. Transport hazard class(es)	
	Class	Not available.
	Subsidiary risk	-
	Hazard No. (ADR)	Not available.
	Tunnel restriction code	Not available.
	14.4. Packing group	Not available.
	14.5. Environmental hazards	
	14.6. Special precautions	Not available.
	for user	
RID		
	14.1. UN number	Not available.
	14.2. UN proper shipping	Not available.
	name 14.3. Transport hazard class((00)
	-	Not available.
	Class Subsidiary risk	Not available.
	Subsidiary risk 14.4. Packing group	- Not available.
	14.4. Facking group 14.5. Environmental hazards	
	14.6. Special precautions	Not available.
	for user	
	1	
	14.1. UN number	Not available.
	14.2. UN proper shipping	Not available.
	name	
	14.3. Transport hazard class	(es)
	Class	Not available.
	Subsidiary risk	-
	14.4. Packing group	Not available.
	14.5. Environmental hazards	
	14.6. Special precautions	Not available.
ΙΑΤΛ	for user	
IAI	-	Not available
	14.1. UN number 14.2. UN proper shipping	Not available. Not available.
	name	NUL avaliable.
	14.3. Transport hazard class	(es)
	Class	Not available.
	Subsidiary risk	-
	14.4. Packing group	Not available.
	14.5. Environmental hazards	

14.6. Special precautions for user IMDG	Not available.		
-	Not available.		
14.1. UN number			
14.2. UN proper shipping name			
14.3. Transport hazard class	s(es)		
Class Subsidiony risk	Not available.		
Subsidiary risk	- Net eveilable		
14.4. Packing group 14.5. Environmental hazards	Not available. ds		
Marine pollutant	No.		
EmS	Not available.		
14.6. Special precautions for user	Not available.		
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	Transport in bulk according to Annex it of MARPOL 73/78 and the IBC Code		
MARPOL 73/78 and the IBC			
Code			
SECTION 15: Regulatory in	nformation		
15.1. Safety, health and environ	nental regulations/legislation specific for the substance or mixture		
EU regulations			
Regulation (EC) No. 1005/20	09 on substances that deplete the ozone layer, Annex I and II, as amended		
Not listed.			
Not listed.	On persistent organic pollutants (recast), as amended		
	2 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended		
Not listed.			
Regulation (EU) No. 649/201 Not listed.	2 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended		
	2 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. 166/200	6 Annex II Pollutant Release and Transfer Registry, as amended		
Not listed.			
Not listed.	06, REACH Article 59(10) Candidate List as currently published by ECHA		
Authorisations			
Regulation (EC) No. 1907/20 Not listed.	06, REACH Annex XIV Substances subject to authorization, as amended		
Restrictions on use			
Regulation (EC) No. 1907/20	06, 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 maj Not listed.	or accident hazards involving dangerous substances, as amended		
	This Osfahi Data Chast complice with the memory of Data (CO) N. (CO) N. (2007/20000 Th		
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.		
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.		
Water hazard class			
AwSV	WGK1		
SECTION 16: Other inform	ation		

SECTION 16: Other information

List of abbreviations

References	Not available.
Information on evaluation method leading to the classification of mixture	Not applicable.
Full text of any H-statements not written out in full under Sections 2 to 15	None.
Revision information	SECTION 2: Hazards identification: 2,3. Other hazards SECTION 8: Exposure controls/personal protection: Environmental exposure controls SECTION 11: Toxicological information: Endocrine disrupting properties SECTION 12: Ecological information: 12,6. Endocrine disrupting properties SECTION 12: Ecological information: 12,5. Results of PBT and vPvB assessment SECTION 16: Other information: Disclaimer
Training information	Follow training instructions when handling this material.
Disclaimer	KRATON CORPORATION urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information set forth in this document, as of the date of this document, is based on present knowledge, obtained from reliable sources and made to our reasonable ability and in good faith. Such information is made without any warranty or guarantee whatsoever, and shall establish no legal duty or responsibility on the part of the author(s), their employer or its affiliates. The information given is designed only as guidance and its completeness is not guaranteed. The information is not a guarantee of any specific product properties, features, qualities or specifications.
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