

SAFETY DATA SHEET

RAHN

Revision date 10-Apr-2024

Revision Number 1

1. Identification

Product identifier

Product Name GENOMER* 3365

Other means of identification

Synonyms Modified polyetherpolyol acrylate

Application of the substance/ the mixture

Resin for radically curable inks, coatings, adhesives, fillers, etc.

Other information For industrial use only

Details of the supplier of the safety data sheet

Supplier Address

RAHN USA Corp.
1005 North Commons Drive
Aurora, IL 60504
Phone Number: +1 630 851 4220

For further information, please contact

Contact Point Regulatory Affairs Department
E-mail address SDSENC@rahn-group.com

Emergency telephone number

Emergency Telephone +1 800 535 5053 (Infotrak, 24h)

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2A - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Contains Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Signal word

Warning

Hazard statements

Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.

If eye irritation persists: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

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

Take off contaminated clothing and wash it before reuse.

Other information

May be harmful if swallowed.

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

3. Composition/information on ingredients

Mixture

Chemical name	CAS No	Weight-%	GHS Classification
Propylidynetrimehanol, ethoxylated, esters with acrylic acid	28961-43-5	50 - 70	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Avoid contact with UV and sunlight.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Small Fire	Dry chemical, CO2 or water spray.
Large Fire	Alcohol resistant foam. Water spray.
Unsuitable extinguishing media	Full water jet.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 7 for more information. See section 8 for more information. See section 13 for more information.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Do not store at temperatures above 40 °C (104 °F). Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Keep away from heat. Protect from sunlight. Store in a well-ventilated place.
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8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Hand protection Wear suitable gloves. Nitrile rubber. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Color	colorless
Odor	Amine-like

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No data available	
Flash point	> 100 °C / 212 °F	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	
Vapor density	No data available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition temperature	No information available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	100 - 200 mPas @ 25°C	
Surface tension	No data available	

Other information

Explosive properties	No data available
Oxidizing properties	No data available
Softening point	No data available
Molecular weight	No data available
VOC Content (%)	No data available
Liquid Density	No data available
Bulk density	No data available

10. Stability and reactivity

Reactivity	No information available.
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	Keep away from sources of ignition - No smoking. Polymerization occurs when exposed to white light, ultraviolet light or heat. UV-radiation/sunlight.
Incompatible materials	Avoid contact with radical forming initiators, peroxides, strong alkalis or reactive metals to prevent exothermic polymerization.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	3,089.60 mg/kg
ATEmix (dermal)	20,380.80 mg/kg

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Component Information	
Propylidynetrimehanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 401: Acute Oral Toxicity
Species	Rat
Exposure route	gavage
Results	LD50 > 2000 mg/kg bw
Method	Not Specified
Species	Rabbit
Exposure route	Dermal
Results	LD50 > 13'200 mg/kg bw

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylidynetrimehanol,	> 2000 mg/kg bw (Rat)	> 13'200 mg/kg bw (Rabbit)	-

ethoxylated, esters with acrylic acid 28961-43-5			
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

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

Component Information	
Propylidyntrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 404: Acute Dermal Irritation/Corrosion
Species	Rabbit
Exposure route	Dermal
Effective dose	0.5 mL
Exposure time	4 hours
Results	Non-irritant

Serious eye damage/eye irritation Causes serious eye irritation.

Component Information	
Propylidyntrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 405: Acute Eye Irritation/Corrosion
Species	Rabbit
Exposure route	Eye
Effective dose	0.1 mL
Results	Irritant

Respiratory or skin sensitization May cause an allergic skin reaction.

Component Information	
Propylidyntrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 406: Skin Sensitization
Species	Guinea pig
Exposure route	Dermal
Results	Sensitizing

Germ cell mutagenicity

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

Component Information	
Propylidyntrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test
Species	in vivo
Results	Not mutagenic
Method	OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test
Species	in vitro
Results	inconclusive
Method	OECD Test No. 471: Bacterial Reverse Mutation Test
Species	in vitro
Results	Not mutagenic

Carcinogenicity

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

Reproductive toxicity

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

Component Information	
Propylidyntrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	Read Across from result of OECD 414 study with CAS 42978-66-5
Species	Rat
Exposure Route	Oral / Dermal
Exposure time	max. 52 days
Results	NOAEL = 750 mg/kg bw/day (Fertility)

	NOAEL = 1000 mg/kg bw/day (Teratogenicity)
Method	Read Across from result of OECD 443 study with CAS 42978-66-5
Species	Rat
Exposure Route	Oral gavage
Exposure time	max. 90 days
Results	NOAEL = > 100 mg/kg bw/day

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Component Information	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)	
Method	OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents
Species	Rat
Exposure route	Oral gavage
Exposure time	90 days
Results	NOAEL = 150 mg/kg bw/day (local) NOAEL = 375 mg/kg bw/day (systemic)

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5	EC50(72h) = 2.2 mg/L (OECD 201)	LC50(96h) = 1.95mg/L (OECD 203)	EC50(3h) > 1000 mg/L	EC50(48h) = 70.7 mg/L (OECD 202)

Persistence and degradability No information available.

Component Information			
Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)			
Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	Biodegradation : 60% (after 28 days)	Readily biodegradable

Bioaccumulation

Component Information	
Chemical name	Partition coefficient
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5	Log Pow = 2.89

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused Can be landfilled or incinerated, when in compliance with local regulations.

products

Contaminated packaging Packaging may be reused or recycled after cleaning.

Other information Do not allow product to reach sewage system

14. Transport information

DOT Not regulated

15. Regulatory information

International Inventories

TSCA All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

DSL/NDSL All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

REACH Registered, non EU customers please contact RAHN before importing the product into the EU.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

REACH - Registration, Evaluation, Authorization and Restriction of Chemicals

Chemical Weapons Convention (CWC)

This product does not contain any chemicals regulated under the Chemical Weapons Convention

US Federal Regulations

TSCA Section 12(b) Export Notification (40CFR707, Subpart D)

This product does not contain reportable amounts of any TSCA 12(b) listed chemicals.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
2,2-Bis(acryloyloxymethyl)butyl acrylate 15625-89-5 (<0.1 %)	Carcinogen

16. Other information

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 1	Special hazards -
<u>HMIS</u>	Health hazards 2	Flammability 1	Physical hazards 1	Personal protection -

Prepared By Regulatory Affairs ENC.

Revision date 10-Apr-2024

Revision Note No information available.

Disclaimer

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method to use. We do not accept responsibility for any harm caused by the use of this information. Furthermore nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use. In all cases, our general conditions of sale apply.

End of Safety Data Sheet