

Version Number 1

Printing Date 04/17/2024

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# **1** Identification · Product identifier · Trade name: <u>R113-2</u> · Relevant identified uses of the substance or mixture. Industrial Use Only. · Application of the substance / the mixture Adhesives • Details of the supplier of the safety data sheet • Manufacturer/Supplier: Rochford 7624 Boone Ave N Brooklyn Park, MN 55428 Information Phone Number: 763-447-6600 · Information department: Global Regulatory Department. • Emergency telephone number: Infotrac: Day or Night within USA and Canada: 1-800-535-5053

### 2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

<b>•</b>	
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 1B	H360 May damage fertility or the unborn child.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
GHS	
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
· Label elements · GHS label eler	s ments The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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(Contd. of page 1) · Hazard pictograms GHS07 GHS02 GHS0 · Signal word Danger · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. *Continue rinsing.* IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



1 Health = 13 Fire = 3**PHYSICAL HAZARD** Physical Hazard = 0

· Other hazards

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

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

· Chemical characterization: Mixtures

· Description: Mixture

· Hazardous components:

108-88-3 toluene

67-64-1 acetone

78-93-3 methyl ethyl ketone

2162-74-5 N,N'-Bis[2,6-di(propan-2-yl)phenyl]methanediimine

#### **4 First-aid measures**

· Description of first aid measures

• After inhalation:

Supply fresh air or oxygen; call for 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: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

- Use water spray to cool fire exposed containers.
- · Protective equipment: Protective clothing and respiratory protective device.

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25-50% 25-50%

25-50%

≤0.5%

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6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures* Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

## 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep container closed when not in use. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- · Information about storage in one common storage facility:
- Store away from oxidizing agents.

Store away from foodstuffs.

- 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 remaining constituent has no known exposure limits.

### 108-88-3 toluene

- PEL Long-term value: 200 ppm Ceiling limit value: 300; 500\* ppm \*10-min peak per 8-hr shift
- REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

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TLV	Long-term value: 20 ppm	(Contd. of page
	BEI, NIC-OTO	
<b>67-6</b> 4	4-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm	
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm	
	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm	
	Long-term value: 594 mg/m <sup>3</sup> , 250 ppm	
	BEI	
78-93	3-3 methyl ethyl ketone	
PEL	Long-term value: 590 mg/m³, 200 ppm	
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm	
	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm	
TLV	Short-term value: 885 mg/m³, 300 ppm	
	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm	
	BEI	
· Ingre	dients with biological limit values:	
108-8	88-3 toluene	
BEI	0.02 mg/L	
	Medium: blood	
	Time: prior to last shift of workweek	
	Parameter: Toluene	
	0.03 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: Toluene	
	0.3 mg/g creatinine	
	Medium: urine	
	Time: end of shift	
	Parameter: o-Cresol with hydrolysis (background)	
	1-1 acetone	
	50 mg/L	
	Medium: urine	
	Time: end of shift Parameter: Acetone (nonspecific)	
	3-3 methyl ethyl ketone	
	2 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: MEK	
· Addii	tional information: The lists that were valid during the creation were used as basis.	
· Expo	sure controls	
· Perso	onal protective equipment (see listings below)	
· Gene	ral protective and hygienic measures:	
	away from foodstuffs, beverages and feed.	
1 100 100 0	diately remove all soiled and contaminated clothing.	
Wash	hands before breaks and at the end of work. I contact with the eyes and skin.	

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• Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

• Protection of hands:



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.* • *Material of gloves* 

Nitrile rubber, NBR

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.

· 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:

Safety glasses with side shields.



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Tightly sealed goggles

· Body protection: Protective work clothing

<ul> <li>Information on basic physical and</li> <li>General Information</li> </ul>	chemical properties
· Appearance:	
Form:	Liquid
Color:	Not determined.
· Odor:	Characteristic
Odor threshold:	Not Available.
pH-value:	Not determined.
· Change in condition	
Melting point:	Undetermined.
Boiling point:	55 °C (131 °F)
Flash point:	-20 °C (-4 °F)
Flammability (solid, gaseous):	Not Applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not Available.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Flammable limits:	
Lower:	1.2 Vol %

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Upper:	13.0 Vol %	
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)	
· Specific gravity at 20 •C (68 •F):	0.858	
· Relative density	Not Available.	
· Vapor density	Not Available.	
· Evaporation rate	Not Available.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not Available	
· Viscosity:		
Dynamic:	Not Available	
Kinematic:	Not Available	
· Solvent content:		
Organic solvents:	Not available	
Solids content:	Not Available.	
• Other information	Pounds / Gallon 7.16	
v	Grams VOC/Liter (less water, less exempts) 728.05	
	Pounds VOC/Liter (less water, less exempts) 6.07	

# 10 Stability and reactivity

- · Reactivity Not reactive as supplied
- · Chemical stability Stable under recommended storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat, flames, sparks.
- Incompatible materials: Reacts with reducing agents. Reacts with acids. Reacts with strong oxidizing agents. Reacts with alkali (lyes). Copper and copper alloys.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

# **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:			
108-88-3 toluene			
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 h	5,320 mg/l (mouse)	
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· Primary	irritant	effect:
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• on the skin: Skin irritant.

• on the eye:

Irritating effect.

Vapors may be irritating to the eyes.

• Sensitization: No sensitizing effects known.

 $\cdot$  Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

· 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: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · 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: Comply with current regulations.
- · Uncleaned packagings:
- · Recommendation: Comply with current regulations.

## **14 Transport information**

· UN-Number · DOT, IMDG, IATA

UN1133

· UN proper shipping name · DOT, IMDG, IATA

ADHESIVES

(Contd. on page 9)

Printing Date 04/17/2024 Version Number 1 Trade name: R113-2 (Contd. of page 9) · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3 · IMDG, IATA · Class 3 Flammable liquids · Label 3 · Packing group · DOT, IMDG, IATA II · Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 33 · EMS Number: F-E, S-D· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · UN ''Model Regulation'': UN1133, ADHESIVES, 3, II

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

108-88-3 toluene

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

#### · Hazardous Air Pollutants

108-88-3 toluene

### · Proposition 65

*Please contact Rochford for more information regarding Proposition 65 on this product: info@rochfordsupply.com*.

· (DSL) Canada Domestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

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•	Cancer	ogenity	categories
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· EPA (Environmental Protection Agency)

108-88-3 toluene

67-64-1 acetone 78-93-3 methyl ethyl ketone

• TLV (Threshold Limit Value)

108-88-3 toluene

67-64-1 acetone

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Rochford makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Rochford or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· Department issuing SDS: Global Regulatory Department.

· Creation Date: 08/17/2022

· Contact:

*Please contact Rochford for more information regarding Proposition 65 on this product: info@rochfordsupply.com*.

• Date of preparation: 04/11/2024

- 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) 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 BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1

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Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 (Contd. of page 10)