

# Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Name	RV-03 - Rear View Mirror Adhesive - Part A
Other means of identification Synonyms	Not applicable
Recommended use of the chemical	and restrictions on use
Identified uses	Adhesives.
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Manufacturer Address	ABRO Industries, Inc.
	3580 Blackthorn Ct.
	South Bend, IN 46628 USA
Emergency Telephone	Chemtrec: US/Canada 1-800-424-9300 International +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

Emergency Overview_			
Physical state	liquid (gel)	Color	light yellow
Odor	Characteristic	Appearance	translucent

# **Classification**

# **OSHA Regulatory Status**

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

# **Target Organ Effects**

Respiratory system.

# GHS Label elements, including precautionary statements



# Signal word

Warning

# Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area

# **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

# Hazards not otherwise classified (HNOC)

None

# Other Information

#### Unknown acute toxicity

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Chemical Name	CAS No	Weight-%	Trade Secret	Classification (Reg. 1272/2008)
Isobornyl Acrylate	5888-33-5	25-39	*	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
2-Hydroxyethyl methacrylate	868-77-9	25-39	*	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)
tert-Butyl Perbenzoate	614-45-9	1-3	*	Org. Perox C (H242) Acute Tox. 4 (H332) Skin Irrit. 2 (H315)

				Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
Organic Acid	Proprietary	1-3	*	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Maleic Acid	110-16-7	1-3	*	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2A (H319) STOT SE 3 (H335) Aquatic Acute 3 (402)
Silane Coupling Agent	Proprietary	<1	*	Skin Sens. 1 (H317)
Epoxy Resin	Proprietary	<1	*	Skin Irrit. 3 (H316) Eye Irrit. 2B (H320) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### First aid measures

# General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

#### Eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

#### Skin Contact

Wash off immediately with plenty of water, Get medical attention if irritation develops and persists.

#### Inhalation

Remove to fresh air, If symptoms persist, call a physician.

#### Ingestion

If swallowed, Rinse mouth, Get medical attention.

#### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### Most important symptoms and effects, both acute and delayed

# Main Symptoms

No information available.

# Indication of any immediate medical attention and special treatment needed

#### Note to physicians

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use CO2, dry chemical, or foam.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Specific hazards arising from the chemical

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

# Hazardous combustion products

Hazardous decomposition products due to incomplete combustion.

Explosion data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

#### Environmental precautions

# **Environmental precautions**

Do not allow material to contaminate ground water system, Try to prevent the material from entering drains or water courses, See Section 12 for additional Ecological Information, Local authorities should be advised if significant spillages cannot be contained.

#### **Other Information**

See Section 12 for additional Ecological Information.

#### 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

# Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice Ensure adequate ventilation Protect from light

#### Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a dry and well-ventilated place Protect from light

#### Incompatible products

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# Exposure Guidelines

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 Measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Safety glasses with side-shields, If splashes are likely to occur, wear:, Goggles.

# Skin and body protection

Wear protective gloves and 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, Do not breathe vapors, mist or gas.

# **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice, When using do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Regular cleaning of equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	liquid (gel) translucent light yellow	Odor Odor threshold	Characteristic No information available
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range	<u>Values</u>	Remarks / • Method No information available No information available	
Flash point	101 °C / 213 °F		
Evaporation rate		No information available	
Flammability (solid, gas) Flammability Limit in Air		No information available	
Upper flammability limit	-		
Lower flammability limit Vapor pressure	-	No information available	
Vapor density		No information available	
Specific Gravity		No information available	
Water Solubility	Practically insoluble		
Solubility in other solvents		No information available	
Partition coefficient: n-octanol/wate	er	No information available	
Autoignition temperature		No information available	
Decomposition temperature	30,000 cP	No information available	
Dynamic viscosity Kinematic viscosity	30,000 CF	No information available	
Explosive properties	No information available		
Oxidizing properties	No information available		

# **Other Information**

Softening point VOC Content (%) Density Bulk density

10. STABILITY AND REACTIVITY

<u>Reactivity</u> No information available

#### **Chemical stability**

Stable under normal conditions.

# Possibility of Hazardous Reactions

None under normal processing.

# Conditions to avoid

Protect from light. Heat, flames and sparks.

# Incompatible materials

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers.

# **Hazardous Decomposition Products**

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

# Information on toxicological effects

# Acute toxicity

Information on likely routes of exposure

Inhalation	There is no data for this product
Eye contact	There is no data for this product
Skin Contact	There is no data for this product
Ingestion	There is no data for this product
Symptoms	No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause sensitization of susceptible persons.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.
STOT - single exposure Target Organ Effects	Respiratory system.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons

No information available 1.66571998596191 No information available No information available

# Avoid repeated exposure

# Numerical measures of toxicity - Product Information

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

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

ATEmix (oral)	7204 mg/kg
ATEmix (dermal)	13754 mg/kg
ATEmix (inhalation-dust/mist)	6.8
ATEmix (inhalation-vapor)	393 mg/l

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	
tert-Butyl Perbenzoate	= 4838 mg/kg (Rat)	= 3,817 mg/kg (Rabbit)	
Organic Acid	= 2969 mg/kg (Rat)		
Maleic Acid	= 708 mg/kg (Rat)	= 1560 mg/kg (Rabbit)	> 720 mg/m <sup>3</sup> (Rat) 1 h
Silane Coupling Agent	> 5000 mg/kg (Rat)		
Epoxy Resin	= 11400 mg/kg (Rat)		

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

# Acute aquatic toxicity

# Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required. **Component Information** 

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Isobornyl Acrylate	ErC 50 = 2.7 mg/L 96 h	LC50 = 1.8 mg/L 96 h	EC 50 = 1.1 mg/L 48 h
	(Pseudokirchneriella subcapitata)	(Danio rerio)	(Daphnia magna)
2-Hydroxyethyl methacrylate	-	LC50 = 227 mg/L 96 h	EC50 > 380 mg/l 48 h
		(Pimephales promelas)	(Daphnia magna)
tert-Butyl Perbenzoate	EC50 1.3 mg/l 72 h	LC50 1.6 mg/l 96 h	EC50 11 mg/L 48 h
	(Pseudokirchneriella subcapitata)	(Brachydanio rerio)	(Daphnia magna)
Organic Acid	EC50 47 mg/L 72 h	LC50 190 mg/L 24 h	EC 480 mg/L 48 h
-	(Desmodesmus subspicatus)	(Salmo gairdneri)	(Daphnia magna)
Maleic Acid	-	LC50= 5 mg/L 96 h	EC50 250-400 48 h
		(Pimephales promelas)	(Daphnia magna)
Silane Coupling Agent	EC50 > 536,00 mg/l 72 h	LC50 > 1024,00 mg/l 96 h	EC50 > 876,00 mg/l 48 h
	(Scenedesmus subspicatus)	(Brachydanio rerio)	(Daphnia magna)
Epoxy Resin	-	-	EC50 = 1.4 mg/L 48 h
			(Daphnia magna)

# Persistence and degradability

No information available.

# Bioaccumulation

# Component Information

Chemical Name	log Pow
Isobornyl Acrylate	4.21
2-Hydroxyethyl methacrylate	0.47
tert-Butyl Perbenzoate	3
Organic Acid	-0.4
Maleic Acid	-0.79 - 0.32

Epoxy Resin	2.821

### Mobility in soil

No product level data available.

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

# Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

# Contaminated packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INF	FORMATION	<u> </u>	
DOT	Not regulated		
	Not regulated		
IMDG/IMO	Not regulated		
15. REGULATORY I	VFORMATION		

International Inventorie	6	
TSCA	Complies	
AICS	Not listed	
DSL/NDSL	Not listed	
EINECS/ELINCS	Complies	
ENCS	Complies	
IECSC	Complies	
KECL	Complies	
NZIoC	Not listed	
PICCS	Not listed	
TCSI	Not listed	

Legend:

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

AICS - Australian Inventory of Chemical Substances

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substance Inventory

# US Federal Regulations

#### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

# 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

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

# CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Maleic Acid	5000 lb		RQ 5000 lb final RQ
			RQ 2270 kg final RQ

# US State Regulations

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
tert-Butyl Perbenzoate	Х	Х	Х
Maleic Acid	Х	Х	Х
tert-Butyl hydroperoxide	Х	Х	Х

# 16. OTHER INFORMATION

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.



# **Safety Data Sheet**

Part B

# . IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

RV-03 - Rear View Mirror Adhesive -
Not applicable
and restrictions on use
Adhesives.
No information available
data sheet_
ABRO Industries, Inc.
3580 Blackthorn Ct.
South Bend, IN 46628 USA
Chemtrec: US/Canada 1-800-424-9300 International +1-703-527-3887

# 2 Hazard(s) identification

- Classification of the substance or mixture

GHS02 Flame

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

GHS07

Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
 - Hazard pictograms



- Signal word Danger

- Hazard-determining components of labeling:
- isopropanol - *Hazard statements*
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P233 Keep container tightly closed.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves / eye protection / face protection.
- P280 Wear eye protection / face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P271 Use only outdoors or in a well-ventilated area.
- P243 Take precautionary measures against static discharge.
- P264 Wash face, hands and any exposed skin thoroughly after handling.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF

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Reviewed on 10/29/2015

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			(Contd. of page 1
P312 P337+P313 P370+P378 P405 P405	Call a POISON CENTER/doctor if yo If eye irritation persists: Get medical In case of fire: Use for extinction: CO Store locked up.	l advice/attention. D2, powder or water spray.	(Conto. of page 1
P403+P233 P403+P235 P501		p container tightly closed. p cool. cordance with local/regional/national/international regulations.	
<ul> <li>Classification system</li> <li>NFPA ratings (so</li> </ul>			
Health = Fire = 3 Reactivi			
- HMIS-ratings (sc	ale 0 - 4)		
HEALTH I Health FIRE 3 Fire = 3 REACTIVITY 0 Reactiv	3		
- Other hazards			
	and vPvB assessment		
<ul> <li>- PBT: Not applic</li> <li>- vPvB: Not appl</li> </ul>			
	mation on ingredients		
- Chemical characteri	<i>ization: Mixtures</i> ure of the substances listed below with r	nonhazardous additions	
- Dangerous com			
67-63-0 isopropanol		Flam. Lig. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	90-100%
1338-02-9 Metal Salt Co	omplex	Flam. Liq. 3, H226; Acute Tox. 4, H302	1-5%
4 First-aid measures	5		
- After skin contac - After eye contact - After swallowing - Information for d - Most importat - Indication of a	: If symptoms persist consult doctor.	te the skin. s under running water. If symptoms persist, consult a doctor. <b>cute and delayed</b> No further relevant information available	<u>.</u>
5 Fire-fighting meas			
- Extinguishing media - Suitable extingui	a ishing agents:	s with water spray or alcohol resistant foam.	
	shing powder. Do not use water. ns unsuitable extinguishing ager	ate: Water with full int	
<ul> <li>Special hazards aris</li> <li>Advice for firefighter</li> </ul>	sing from the substance or mixtu rs	re No further relevant information available.	
<ul> <li>Protective equips Wear self-contained Wear fully protective</li> </ul>	respiratory protective device.		
6 Accidental release	measures		1.8
Wear protective equipme Ensure adequate ventila		ergency procedures	
Wear protective clothing			
Inform respective author	rities in case of seepage into water cour wers/ surface or ground water.	rse or sewage system.	
<ul> <li>Methods and materia</li> </ul>	ial for containment and cleaning	up:	
Ensure adequate ventila	ation. or aqueous cleansing agents		
	I material according to regulations.		Contractor
			(Contd. on page 3

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Trade name: Rearview Mirror Adhesive

#### - 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

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: 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.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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:

# 67-63-0 isopropanol

- PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- REL Short-term value: 1225 mg/m3, 500 ppm
- Long-term value: 980 mg/m<sup>3</sup>, 400 ppm TLV Short-term value: 984 mg/m<sup>3</sup>, 400 ppm
  - Long-term value: 492 mg/m<sup>3</sup>, 200 ppm BEI

#### - Ingredients with biological limit values:

#### 67-63-0 isopropanol

#### BEI 40 mg/L

- Medium: urine
- Time: end of shift at end of workweek
- Parameter: Acetone (background, nonspecific)

- Additional information: The lists that were valid during the creation were used as basis.

#### - Exposure controls

#### Personal protective equipment:

- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

# Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation - *Material of gloves*

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

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 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:
 Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and cl	nemical properties
- General Information	
- Appearance: - Form:	Linuid
- Form: - Color:	Liquid Colorless
- Odor:	Alcohol-like
- Odor threshold:	Not determined.
- pH-value:	Not determined.
	Not determined.
<ul> <li>Change in condition</li> </ul>	
<ul> <li>Melting point/Melting range:</li> </ul>	-89.5 ℃ (-129 ℉)
<ul> <li>Boiling point/Boiling range:</li> </ul>	82 °C (180 °F)
- Flash point:	13 ℃ (55 °F)
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Not applicable.
<ul> <li>Ignition temperature:</li> </ul>	425 °C (797 °F)
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Explosion limits:	
- Lower:	2 Vol %
- Upper:	12 Vol %
- Vapor pressure at 20 °C (68 °F):	43 hPa (32 mm Hg)
- Density at 20 °C (68 °F):	0.7876 g/cm3 (6.573 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water at 20 °C (68 °F):	1 g/l
- Partition coefficient (n-octanol/wa	
- Viscosity:	
- Dynamic at 20 °C (68 °F):	1 mPas
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	98.8 %
- VOC content:	98.8 %
	778.1 g/l / 6.49 lb/gl
- Other information	No further relevant information available.

- Reactivity No further relevant information available.

- Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.

- Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.

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- Hazardous decomposition	products: No dangerous deco	mposition products known.
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# **11 Toxicological information**

#### - Information on toxicological effects - Acute toxicity:

- I D// C50 v	aluge that are	rolovant for	classification:
	aiues liial aie	I EIE VAIILIUI	ciassilication.

-	
67-63-0 is	sopropanol
Oral	LD50 5045 mg/kg (rat)
Dermal	LD50 12800 mg/kg (rabbit)
Inhalative	LC50/4 h 30 mg/l (rat)
1338-02-9	) Metal Salt Complex
Oral	LD50 7500 mg/kg (rat)
Dermal	LD50 >5000 mg/kg (rabbit)
Inhalative	LC50/4 h 3 mg/l (rat)
- <b>Add</b> The p Irritan	arcinogenic categories
C7 C2 0 ;	- IARC (International Agency for Research on Cancer)
67-63-01	opproprint -
	· NTP (National Toxicology Program)
None of t	he ingredients is listed.
	<ul> <li>OSHA-Ca (Occupational Safety &amp; Health Administration)</li> </ul>
None of t	ne ingredients is listed.
12 Ecolog	ical information
- Toxicity - Aqua - Persiste - Behavio	, atic toxicity: No further relevant information available.

- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- Remark: Harmful to fish

# - Additional ecological information:

- General notes:
  - Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- Harmful to aquatic organisms
- 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: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### - Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*14 Transport information	
- UN-Number	
- DOT, IMDG, IATA	UN1219

(Contd. on page 6)

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# Safety Data Sheet acc. to OSHA HCS

Trade name: Rearview Mirror Adhesive

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(Contd. of page 5) - UN proper shipping name - DOT Isopropanol - IMDG ISOPROPANOL (ISOPROPYL ALCOHOL) mixture - IATA Isopropanol mixture - Transport hazard class(es) - DOT - Class 3 Flammable liquids - Label 3 - IMDG, IATA · Class **3** Flammable liquids · Label 3 - Packing group - DOT, IMDG, IATA П - Environmental hazards: - Marine pollutant: No - Special precautions for user Warning: Flammable liquids Danger code (Kemler): 33 - EMS Number: F-E,S-D Stowage Category В - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. - Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L - IMDG - Limited quantities (LQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml - UN "Model Regulation": UN 1219 ISOPROPANOL MIXTURE, 3, II <sup>\*</sup>15 Regulatory information - Safety, health and environmental regulations/legislation specific for the substance or mixture Sara - Section 355 (extremely hazardous substances): None of the ingredients is listed. - Section 313 (Specific toxic chemical listings): All ingredients are listed. - TSCA (Toxic Substances Control Act): All ingredients are listed. - Proposition 65 - Chemicals known to cause cancer: None of the ingredients is listed.

- *Chemicals known to cause reproductive toxicity for females:* None of the ingredients is listed.

# Safety Data Sheet acc. to OSHA HCS

Printing date 01/29/2016

- Disclaimer

Reviewed on 10/29/2015

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	(Contd. of page
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
- Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
<ul> <li>Carcinogenic categories</li> </ul>	
<ul> <li>EPA (Environmental Protection Agency)</li> </ul>	
None of the ingredients is listed.	
<ul> <li>TLV (Threshold Limit Value established by ACGIH)</li> </ul>	
67-63-0 isopropanol	A
- NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
Other information	
- Department issuing SDS: Safety, Health and Environmental Affaires - Contact: Safety, Health Affaires - Contact: Safety, Hea	

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