

Safety Data Sheet

55 SLV Ultrathin Injection Epoxy - Part A

Revision Date 07/07/2014

Print Date 08/06/2014

1. Identification

Product name : #55 SLV Ultrathin Injection Epoxy - Part A

Supplier : CPR Products, Inc.

Address : 1315 W. Lark Industrial Dr.
St. Louis, MO 63026
USA

Telephone : 636.717.0666

Telefax : 636.717.0665

Emergency telephone : INFOTRAC: 800.535.5053


Recommended use of the chemical and restrictions on use : For further information, refer to the product technical data sheet.

2. Hazards identification

GHS Classification

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2A	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.

GHS Label element

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection.

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 25 - < 50 %
bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 20 - < 25 %
[[2-ethylhexyl]oxy]methyl]oxirane (2-ethylhexyl glycidyl ether)	2461-15-6	>= 10 - < 20 %
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	>= 10 - < 20 %
2,3-Epoxypropylneodecanoate	26761-45-5	>= 5 - < 10 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

If swallowed	: Clean mouth with water and drink afterwards plenty of water. Induce vomiting immediately and call a physician. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: irritant effects sensitizing effects Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms.
Protection of first-aiders	: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
Notes to physician	: Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific extinguishing methods	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. Handling and storage

Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl ml`Part A

Revision Date 07/07/2014

Print Date 08/06/2014

- Advice on safe handling : Do not breathe vapors or spray mist.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Store in accordance with local regulations.
- Materials to avoid : no data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

- Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection**
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection** : Choose body protection in relation to its type, to the

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb'9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid

Color : clear

: straw-like

Odor : aromatic

Odor Threshold : no data available

Flash point : > 212 °F (> 100 °C)

Ignition temperature : not applicable

Decomposition temperature : no data available

Lower explosion limit (Vol%) : no data available

Upper explosion limit (Vol%) : no data available

Flammability (solid, gas) : no data available

Oxidizing properties : no data available

Autoignition temperature : no data available

pH : no data available

Melting point/range / Freezing point : no data available

Boiling point/boiling range : no data available

Vapor pressure : no data available

Density : 1.08 g/cm³
at 73 °F (23 °C)

Water solubility : Note: insoluble

Partition coefficient: n-octanol/water : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : > 20.5 mm²/s

Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

at 104 °F (40 °C)

Relative vapor density : no data available

Evaporation rate : no data available

Burning rate : no data available

Volatile organic compounds (VOC) content : 13 g/l
A+B Combined

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : no data available

Incompatible materials : no data available

11. Toxicological information

Acute toxicity

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Ingredients:

bisphenol-A-(epichlorhydrin) epoxy resin :

Acute oral toxicity : LD50 Oral rat: > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 20,000 mg/kg

bisphenol-F-(epichlorhydrin) epoxy resin :

Acute oral toxicity : LD50 Oral rat: > 5,000 mg/kg

2,3-Epoxypropylneodecanoate :

Acute oral toxicity : LD50 Oral rat: 9,600 mg/kg

Acute dermal toxicity : LD50 Dermal rat: 3,800 mg/kg

Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye irritation.

Respiratory or skin sensitization

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

Mutagenicity : Suspected of causing genetic defects.

Carcinogenicity

Product

Carcinogenicity : no data available

IARC

not applicable

NTP

not applicable

Reproductive Toxicity/Fertility

Product

Reproductive toxicity : no data available

Reproductive Toxicity/Development/Teratogenicity

Product

Teratogenicity : no data available

STOT-single exposure

Product

Assessment: no data available

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Product

Assessment: no data available

Aspiration toxicity

Product

Safety Data Sheet

55 SLV I `fUH]b`b`YW]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

no data available

12. Ecological information

Other information

Do not empty into drains; dispose of this material and its container in a safe way.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May be harmful to the environment if released in large quantities.
Water polluting material.

Component:

2,3-Epoxypropylneodecanoate	26761-45-5	<u>Toxicity to daphnia and other aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 3.5 mg/l Exposure time: 48 h
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13. Disposal considerations

Disposal methods

Waste from residues	: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated

IATA

UN number	3082
Description of the goods	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin) epoxy resin, bisphenol-F-(epichlorhydrin) epoxy resin)
Class	9
Packing group	III
Labels	9
Packing instruction (cargo)	964

Safety Data Sheet

55 SLV I `fUH]b`b`YW]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

aircraft)
Packing instruction (passenger aircraft) 964
Packing instruction (passenger aircraft) Y964

IMDG

UN number 3082
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(bisphenol-A-(epichlorhydrin) epoxy resin, bisphenol-F-(epichlorhydrin) epoxy resin)
Class 9
Packing group III
Labels 9
EmS Number 1 F-A
EmS Number 2 S-F
Marine pollutant yes

IATA: For Excepted Quantity provisions reference IATA DGR Section 2.6.

IMDG: For Excepted Quantity special provisions reference IMDG Code Chapter 3.5.

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification

Health	*	2
Flammability		1
Physical Hazard		0
Personal Protection		X

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that CPR believes to be reliable as of the date hereof. Prior to each use of any product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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Safety Data Sheet

55 SLV 1`fUH]b`b^W]cb`9 dcl m! Part A

Revision Date 07/07/2014

Print Date 08/06/2014

All sales are subject to current terms and conditions

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that, at the time and place we make shipment, our material will meet the current published physical properties when applied with CPR's directions and tested in accordance with ASTM standards. CPR Products, Inc.'s liability is limited to replacement of material found to be defective, as CPR Products has no control over the use to which others may apply its products. It is recommended that the product be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the contractor and owner for the design, application and proper installation of each product. Nothing contained herein should be construed to be a recommendation to use, or as a license to operate under or infringe any existing patents.

Safety Data Sheet

#55 SLV Ultrathin Injection Epoxy - Part B

Revision Date 07/15/2014

Print Date 07/15/2014

1. Identification

Product name : #55 SLV Ultrathin Injection Epoxy - Part B

Supplier : CPR Products, Inc.

Address : 1315 W. Lark Industrial Dr.
St. Louis, MO 63026
USA

Telephone : 636.717.0666

Telefax : 636.717.0665

Emergency telephone : INFOTRAC 800.535.5053

Recommended use of the chemical and restrictions on use : For further information, refer to the product technical data sheet.

2. Hazards identification

GHS Classification

Acute toxicity, Category 4 (Oral)	H302: Harmful if swallowed.
Acute toxicity, Category 4 (Dermal)	H312: Harmful in contact with skin.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.

GHS Label element

Hazard pictograms :

Signal Word :



Hazard Statements : H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**
P260 Do not breathe dust or mist.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER or

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Warning : Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Isophoronediamine	2855-13-2	>= 25 - < 50 %
Benzyl alcohol	100-51-6	>= 10 - < 20 %
Phenol, styrenated	61788-44-1	>= 10 - < 20 %
2-piperazin-1-ylethylamine	140-31-8	>= 10 - < 20 %
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 5 - < 10 %
Salicylic acid	69-72-7	>= 2 - < 5 %
bis[(dimethylamino)methyl]phenol	71074-89-0	>= 1 - < 2 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Health injuries may be delayed.
corrosive effects
sensitizing effects

Gastrointestinal discomfort
Allergic reactions
Dermatitis
Skin disorders
See Section 11 for more detailed information on health effects and symptoms.
- Protection of first-aiders : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.

5. Fire-fighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions, protective equipment and : Use personal protective equipment.
Deny access to unprotected persons.

Safety Data Sheet

55 SLV I`fUH]b`b^YW]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

- emergency procedures
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. Handling and storage

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.
- Materials to avoid : no data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

- Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- The filter class for the respirator must be suitable for the maximum expected contaminant concentration

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection Remarks	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance	: liquid
Color	: light yellow
Odor	: amine-like
Odor Threshold	: no data available
Flash point	: > 212 °F (> 100 °C)
Ignition temperature	: not applicable
Decomposition temperature	: no data available
Lower explosion limit (Vol%)	: no data available
Upper explosion limit (Vol%)	: no data available
Flammability (solid, gas)	: no data available
Oxidizing properties	: no data available
Autoignition temperature	: no data available
pH	: no data available
Melting point/range / Freezing point	: no data available
Boiling point/boiling range	: no data available

Safety Data Sheet

55 SLV I`fUH j b`b`YWjcb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

Vapor pressure	:	no data available
Density	:	0.97 g/cm ³ at 73 °F (23 °C)
Water solubility	:	Note: soluble
Partition coefficient: n-octanol/water	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	> 20.5 mm ² /s at 104 °F (40 °C)
Relative vapor density	:	no data available
Evaporation rate	:	no data available
Burning rate	:	no data available
Volatile organic compounds (VOC) content	:	13 g/l A+B Combined

10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	no data available
Incompatible materials	:	no data available

11. Toxicological information

Acute toxicity

Product

Acute oral toxicity	:	no data available
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available

Ingredients:

Isophoronediamine :

Acute oral toxicity	:	LD50 Oral rat: 1,030 mg/kg
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Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

Benzyl alcohol :

Acute oral toxicity : LD50 Oral rat: 1,230 mg/kg

Acute inhalation toxicity : LC50 rat: 4.178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Phenol, styrenated :

Acute oral toxicity : LD50 Oral rat: 2,500 mg/kg

Acute dermal toxicity : LD50 Dermal rat: > 5,000 mg/kg

2-piperazin-1-ylethylamine :

Acute oral toxicity : LD50 Oral rabbit: ca. 2,097 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: ca. 866 mg/kg

Salicylic acid :

Acute oral toxicity : LD50 Oral rat: 891 mg/kg

Acute dermal toxicity : LD50 Dermal rat: > 2,000 mg/kg

Skin corrosion/irritation

Product

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Product

no data available

Respiratory or skin sensitization

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

Mutagenicity : no data available

Carcinogenicity

Product

Carcinogenicity : no data available

IARC

not applicable

NTP

not applicable

Reproductive Toxicity/Fertility

Product

Safety Data Sheet

55 SLV I `fUH]b`b`YW]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

Reproductive toxicity : no data available

Reproductive Toxicity/Development/Teratogenicity

Product

Teratogenicity : no data available

STOT-single exposure

Product

Assessment: no data available

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Product

Assessment: no data available

Aspiration toxicity

Product

no data available

12. Ecological information

Other information Do not empty into drains; dispose of this material and its container in a safe way.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Component:

2-piperazin-1-ylethylamine 140-31-8 Toxicity to fish:
LC50
Species: Fish
Dose: > 100 mg/l
Exposure time: 96 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Safety Data Sheet

55 SLV I `fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	3267
Description of the goods	Corrosive liquid, basic, organic, n.o.s. (Isophoronediamine, 2-piperazin-1-ylethylamine)
Class	8
Packing group	II
Labels	8
Emergency Response Guidebook Number	153

IATA

UN number	3267
Description of the goods	Corrosive liquid, basic, organic, n.o.s. (Isophoronediamine, 2-piperazin-1-ylethylamine)
Class	8
Packing group	II
Labels	8
Packing instruction (cargo aircraft)	855
Packing instruction (passenger aircraft)	851
Packing instruction (passenger aircraft)	Y840

IMDG

UN number	3267
Description of the goods	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Isophoronediamine, 2-piperazin-1-ylethylamine)
Class	8
Packing group	II
Labels	8
EmS Number 1	F-A
EmS Number 2	S-B

Marine pollutant no

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

Safety Data Sheet

55 SLV'I `fUH]b`b`YW]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification

Health	*	3
Flammability		1
Physical Hazard		0
Personal Protection		X

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Safety Data Sheet

55 SLV I`fUH]b`b^W]cb`9 dcl m! Part B

Revision Date 07/15/2014

Print Date 07/15/2014

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that CPR believes to be reliable as of the date hereof. Prior to each use of any product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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