

Material Safety Data Sheet

Fastcore H



1. Product and company identification

| | |
|------------------------------------|---|
| Product name | : Fastcore H |
| Synonym | : RSA-605 L2 |
| Material uses | : Industrial applications: soldering |
| Manufacturer | : AIM 9100 Henri Bourassa East Montreal, QC H1E 2S4 (514) 494-2000 In the United States: AIM 25 Kenney Drive Cranston, RI 02920 (800) CALL-AIM |
| Validation date | : 9/15/2015 |
| Print date | : 9/15/2015 |
| <u>In case of emergency</u> | : INFOTRAC North America: (800) 535-5053 International: (352) 323-3500 |
| Product type | : Solid. |

2. Hazards identification

Emergency overview

| | |
|-------------------------------|---|
| Physical state | : Solid. [Flakes or chunks solid.] |
| Color | : Amber. [Light] |
| Odor | : Typical rosin. |
| Signal word | : DANGER! |
| Hazard statements | : CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. |
| Precautionary measures | : Do not ingest. Use only with adequate ventilation. Do not get in eyes. Do not get on skin. Do not eat, drink or smoke when using this product. Avoid prolonged contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. |
| OSHA/HCS status | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |

Potential acute health effects

| | |
|-------------------|---|
| Inhalation | : Corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Ingestion | : Harmful if swallowed. May cause burns to mouth, throat and stomach. |
| Skin | : Corrosive to the skin. Causes burns. Harmful in contact with skin. |
| Eyes | : Corrosive to eyes. Causes burns. |

Potential chronic health effects

| | |
|------------------------|---|
| Chronic effects | : Contains material that can cause target organ damage. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |

2. Hazards identification

- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: eye, lens or cornea, thyroid.
Contains material which may cause damage to the following organs: lungs, spleen, skin, central nervous system (CNS), testes.
Contains material which does not cause damage to the following organs: blood, kidneys, the nervous system, the reproductive system, liver, mucous membranes.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Ingestion** : Adverse symptoms may include the following:
stomach pains
- Skin** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Eyes** : Adverse symptoms may include the following:
pain
watering
redness

- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

| Name | CAS number | % |
|-------------------------------|------------|----------|
| rosin | 8050-09-7 | 50 - 60 |
| dimethylammonium chloride | 506-59-2 | 0.1 - 10 |
| tetrahydro-2-furylmethanol | 97-99-4 | 0.1 - 10 |
| 1,1',1"-nitrilotripropan-2-ol | 122-20-3 | 0.1 - 10 |
| 2-ethylhexane-1,3-diol | 94-96-2 | 0.1 - 10 |
| succinic acid | 110-15-6 | 0.1 - 10 |

Canada

| Name | CAS number | % |
|-------------------------------|------------|----------|
| rosin | 8050-09-7 | 50 - 60 |
| tetrahydro-2-furylmethanol | 97-99-4 | 0.1 - 10 |
| 1,1',1"-nitrilotripropan-2-ol | 122-20-3 | 0.1 - 10 |
| 2-ethylhexane-1,3-diol | 94-96-2 | 0.1 - 10 |
| succinic acid | 110-15-6 | 0.1 - 10 |

Mexico

| Name | CAS number | UN number | % | IDLH | Classification | | | |
|------|------------|-----------|---|------|----------------|---|---|---------|
| | | | | | H | F | R | Special |
| | | | | | | | | |

3. Composition/information on ingredients

| | | | | | | | | |
|-------------------------------|----------|----------------|----------|---|---|---|---|---|
| dimethylammonium chloride | 506-59-2 | Not available. | 0.1 - 10 | - | 3 | 0 | 0 | - |
| 1,1',1"-nitriлотripropan-2-ol | 122-20-3 | Not available. | 0.1 - 10 | - | 2 | 1 | 0 | - |
| tetrahydro-2-furylmethanol | 97-99-4 | Not regulated. | 0.1 - 10 | - | 2 | 2 | 0 | - |
| 2-ethylhexane-1,3-diol | 94-96-2 | Not available. | 0.1 - 10 | - | 2 | 1 | 0 | - |
| succinic acid | 110-15-6 | Not available. | 0.1 - 10 | - | 2 | 1 | 0 | - |

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

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Move containers from spill area. Avoid dust generation. Do not dry sweep. Place spilled material in a designated, labeled waste container. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States

| Ingredient | Exposure limits |
|----------------------------|--|
| tetrahydro-2-furylmethanol | AIHA WEEL (United States, 10/2011). TWA: 0.5 ppm 8 hours. |

Canada

| Occupational exposure limits | | TWA (8 hours) | | | STEL (15 mins) | | | Ceiling | | | |
|---|------------------------------|---------------|-------------------|--------|----------------|-------------------|--------|---------|-------------------|--------|-----------|
| Ingredient | List name | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | Notations |
| rosin, formaldehyde tetrahydro-2-furylmethanol | QC 1/2014 US AIHA 10/2011 | - 0.5 | 0.1 - | - - | - - | - - | - - | - - | - - | - - | [3] |

[3]Skin sensitization

Mexico

Occupational exposure limits

8. Exposure controls/personal protection

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

- Physical state** : Solid. [Flakes or chunks solid.]
- Color** : Amber. [Light]
- Odor** : Typical rosin.

10. Stability and reactivity

| | |
|---|--|
| Chemical stability | : The product is stable. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : No specific data. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |

11. Toxicological information

United States

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------|-----------------------|---------|----------------------|----------|
| rosin | LD50 Oral | Rat | 7600 mg/kg | - |
| | LD50 Oral | Mouse | 8100 mg/kg | - |
| | LD50 Oral | Rabbit | 1600 mg/kg | - |
| | LD50 Oral | Rat | 1070 mg/kg | - |
| 1,1',1''-nitritotripropan-2-ol | LD50 Oral | Rat | 1070 mg/kg | - |
| | LD50 Oral | Mouse | 2520 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| tetrahydro-2-furylmethanol | LD50 Oral | Rat | 5994 mg/kg | - |
| | LD50 Oral | Rat | 1600 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 3.8 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 2 g/kg | - |
| 2-ethylhexane-1,3-diol | LD50 Oral | Rat | 1400 mg/kg | - |
| | LD50 Oral | Rat | 2260 mg/kg | - |

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------------|--------------------------|---------|-------|------------------------|-------------|
| 1,1',1''-nitritotripropan-2-ol | Eyes - Severe irritant | Rabbit | - | 5 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| 2-ethylhexane-1,3-diol | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| succinic acid | Eyes - Severe irritant | Rabbit | - | 750 Micrograms | - |

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|----------------------------|------|------|-----|-------|-----|-------|
| tetrahydro-2-furylmethanol | - | - | - | - | - | None. |

Mutagenicity

11. Toxicological information

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Canada

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------------------|---------|----------------------|----------|
| rosin 1,1',1"-nitritotripropan-2-ol | LD50 Oral | Rat | 7600 mg/kg | - |
| | LD50 Oral | Mouse | 2520 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| | LD50 Oral | Rat | 5994 mg/kg | - |
| tetrahydro-2-furylmethanol 2-ethylhexane-1,3-diol | LD50 Oral | Rat | 1600 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 3.8 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 2 g/kg | - |
| succinic acid | LD50 Oral | Rat | 1400 mg/kg | - |
| | LD50 Oral | Rat | 2260 mg/kg | - |

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|------------------------|-------------|
| 1,1',1"-nitritotripropan-2-ol tetrahydro-2-furylmethanol | Eyes - Severe irritant | Rabbit | - | 5 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| 2-ethylhexane-1,3-diol | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| succinic acid | Eyes - Severe irritant | Rabbit | - | 750 Micrograms | - |

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

| Product/ingredient name | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|----------------------------|-------|------|-----|-------|-----|------|
| tetrahydro-2-furylmethanol | - | - | - | None. | - | - |

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Mexico

Acute toxicity

11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------|-----------------------|---------|----------------------|----------|
| dimethylammonium chloride | LD50 Oral | Mouse | 8100 mg/kg | - |
| | LD50 Oral | Rabbit | 1600 mg/kg | - |
| | LD50 Oral | Rat | 1070 mg/kg | - |
| | LD50 Oral | Rat | 1070 mg/kg | - |
| 1,1',1"-nitrilotripropan-2-ol | LD50 Oral | Mouse | 2520 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| | LD50 Oral | Rat | 4730 mg/kg | - |
| | LD50 Oral | Rat | 5994 mg/kg | - |
| tetrahydro-2-furylmethanol | LD50 Oral | Rat | 1600 mg/kg | - |
| 2-ethylhexane-1,3-diol | LC50 Inhalation Vapor | Rat | 3.8 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 2 g/kg | - |
| | LD50 Oral | Rat | 1400 mg/kg | - |
| succinic acid | LD50 Oral | Rat | 2260 mg/kg | - |

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Score | Score | Exposure | Observation |
|-------------------------------|--------------------------|--------|-------|------------------------|-------------|
| 1,1',1"-nitrilotripropan-2-ol | Eyes - Severe irritant | Rabbit | - | 5 milligrams | - |
| tetrahydro-2-furylmethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| 2-ethylhexane-1,3-diol | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| succinic acid | Eyes - Severe irritant | Rabbit | - | 750 Micrograms | - |

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

| Product/ingredient name | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|----------------------------|-------|------|-----|-------|-----|------|
| tetrahydro-2-furylmethanol | - | - | - | None. | - | - |

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Other information

: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|------------------------------------|---|----------|
| 2-ethylhexane-1,3-diol | Acute LC50 624000 µg/l Fresh water | Fish - Ictalurus punctatus - Fingerling | 96 hours |
| succinic acid | Acute EC50 374200 µg/l Fresh water | Daphnia - Daphnia magna - Larvae | 48 hours |

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Canada

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|------------------------------------|---|----------|
| 2-ethylhexane-1,3-diol | Acute LC50 624000 µg/l Fresh water | Fish - Ictalurus punctatus - Fingerling | 96 hours |
| succinic acid | Acute EC50 374200 µg/l Fresh water | Daphnia - Daphnia magna - Larvae | 48 hours |

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Mexico

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|------------------------------------|---|----------|
| 2-ethylhexane-1,3-diol | Acute LC50 624000 µg/l Fresh water | Fish - Ictalurus punctatus - Fingerling | 96 hours |
| succinic acid | Acute EC50 374200 µg/l Fresh water | Daphnia - Daphnia magna - Larvae | 48 hours |

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|----------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | Not regulated. | - | - | - | | - |
| TDG Classification | Not regulated. | - | - | - | | - |
| Mexico Classification | Not regulated. | - | - | - | | - |
| ADR/RID Class | Not regulated. | - | - | - | | - |
| IMDG Class | Not regulated. | - | - | - | | - |
| IATA-DGR Class | Not regulated. | - | - | - | | - |

PG* : Packing group

15. Regulatory information

United States

- HCS Classification** : Corrosive material
Target organ effects
- U.S. Federal regulations** : **TSCA 8(a) PAIR**: 2-ethylhexane-1,3-diol; 2,2',2''-nitrilotriethanol; 2,2'-iminodiethanol
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
TSCA 8(d) H and S data reporting: 2,2'-iminodiethanol: 1989
Commerce control list precursor: dimethylammonium chloride; 2,2',2''-nitrilotriethanol
Not determined.
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

15. Regulatory information

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--------------------------------|----------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| rosin | 50 - 60 | No. | No. | No. | Yes. | Yes. |
| dimethylammonium chloride | 0.1 - 10 | No. | No. | No. | Yes. | No. |
| 1,1',1''-nitriлотripropan-2-ol | 0.1 - 10 | No. | No. | No. | Yes. | No. |
| tetrahydro-2-furylmethanol | 0.1 - 10 | Yes. | No. | No. | Yes. | No. |
| 2-ethylhexane-1,3-diol | 0.1 - 10 | No. | No. | No. | Yes. | No. |
| succinic acid | 0.1 - 10 | No. | No. | No. | Yes. | Yes. |

State regulations

- Massachusetts** : The following components are listed: 1,1',1''-nitriлотripropan-2-ol; TETRAHYDROFURFURYL ALCOHOL
- New York** : None of the components are listed.
- New Jersey** : None of the components are listed.
- Pennsylvania** : The following components are listed: ROSIN CORE SOLDER PYROLYSIS PRODUCTS; 1,1',1''-nitriлотripropan-2-ol; 2-FURANMETHANOL, TETRAHYDRO-

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---------------------|--------|--------------|---------------------------|---------------------------------|
| 2,2'-iminodiethanol | Yes. | No. | No. | No. |

United States inventory (TSCA 8b) : Not determined.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).
Class E: Corrosive material

Canadian lists

Canadian NPRI : None of the components are listed.

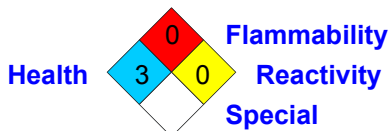
CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :



International regulations

15. Regulatory information

- International lists** : Australia inventory (AICS): Not determined.
 China inventory (IECSC): Not determined.
 Japan inventory: Not determined.
 Korea inventory: Not determined.
 Malaysia Inventory (EHS Register): Not determined.
 New Zealand Inventory of Chemicals (NZIoC): Not determined.
 Philippines inventory (PICCS): Not determined.
 Taiwan inventory (CSNN): Not determined.
- Chemical Weapons Convention List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention List Schedule II Chemicals** : Not listed
- Chemical Weapons Convention List Schedule III Chemicals** : Listed

16. Other information

- Label requirements** : CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

- Hazardous Material Information System (U.S.A.)** :

| | |
|------------------|---|
| Health | 3 |
| Flammability | 0 |
| Physical hazards | 0 |
| | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

- National Fire Protection Association (U.S.A.)** :



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- References** : -CHEMTOX database

16. Other information

Other special considerations : -ALL COMPONENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % (GREATER THAN 0.1 % FOR CARCINOGENS) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.

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✔ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.