

SAFETY DATA SHEET**1. Identification**

Product Name: MA-88 Citrus Flash Mastic Remover
Product Code: B8708
SDS Date: 10/16/2017
Use: Industrial

Express Chem LLC; Mast-Away Mastic Removers
600 West Woodbine Avenue
Kirkwood, MO 63122

General Information: 314-266-4600; Toll-Free: 844-266-4600
CHEMTREC: 800-424-9300 Ref. Chemisphere

2. Hazard(s) identification**GHSClassification**

Flammable liquids (Category 3), H226
Skin irritation (Category 2), H315
Skin sensitization (Category 1), H317
Aspiration hazard (Category 1), H304

Pictogram

Signalword Danger

HazardStatement

Flammable liquid and vapor
Causes skin irritation.
May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.

Precautionary

Avoid breathing mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Ground/bond container and receiving equipment. Keep away from heat/ sparks/ open flames/ hot surfaces-no smoking. Keep container tightly closed. Take precautionary measure against static discharge. Use only non-sparking tools. Wash thoroughly after handling. Wear protective gloves/ eye protection/ face protection. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. If swallowed: Immediately call a poison center/ doctor. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Hazards not otherwise classified: Not available

3. Composition/information on ingredients

Name	CAS	Concentration
Nonylphenol, ethoxylated	127087-87-0	1-10
Distillates (petroleum), hydrotreated light	64742-47-8	50-80
D-Limonene	5989-27-5	20-50

4. First-aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
In Case of Skin Contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In Case of Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
If Swallowed	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire.
Special Hazards	In a fire or if heated, a pressure increase will occur and the container may burst.
Advice for firefighters	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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further Information

Do not use water jet.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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 and materials for containment and cleaning up

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).
Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and storage

Safe Handling

Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. 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. See also Section 8 for additional information on hygiene measures.

Safe 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. Store locked up. 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

Name		CAS	
Nonylphenol, ethoxylated		127087-87-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available
Distillates (petroleum), hydrotreated light		64742-47-8	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	200 mg/m3	Not Available
D-Limonene		5989-27-5	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	20 ppm	Not Available

Engineering Control

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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.

Eye/Face Protection

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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin Protection

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.

Body Protection

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.

Respiratory Protection

Use a properly fitted, air-purifying or air-fed 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.

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

Appearance	Distillates (petroleum), hydrotreated light	Liquid. [Mobile liquid.]
Odor	Distillates (petroleum), hydrotreated light	Mild. Hydrocarbon.
Odor Threshold	Distillates (petroleum), hydrotreated light	No data available
pH	Distillates (petroleum), hydrotreated light	No data available
Melting/Freezing Point	Distillates (petroleum), hydrotreated light	-49°C (-56.2°F)
Initial Boiling Point/Range	Distillates (petroleum), hydrotreated light	235 to 282.22°C (455 to 540°F)
Flash Point	Distillates (petroleum), hydrotreated light	Closed cup: 117.78°C (244°F) [Pensky-Martens.]
Evaporation Rate	Distillates (petroleum), hydrotreated light	Not available.
Flammability	Distillates (petroleum), hydrotreated light	Not available.
Upper Explosion Limit	Distillates (petroleum), hydrotreated light	5.5%
Lower Explosion Limit	Distillates (petroleum), hydrotreated light	0.6%
Vapor Pressure	Distillates (petroleum), hydrotreated light	0.0099 kPa (0.074 mm Hg) [room temperature]
Vapor Density	Distillates (petroleum), hydrotreated light	4.5 [Air = 1]
Relative Density	Distillates (petroleum), hydrotreated light	0.819
Water Solubility	Distillates (petroleum), hydrotreated light	Insoluble in the following materials: cold water and hot water.
Partition Coefficient	Distillates (petroleum), hydrotreated light	Not applicable.
Auto Ignition Temperature	Distillates (petroleum), hydrotreated light	>220°C (>428°F)
Decomposition Temperature	Distillates (petroleum), hydrotreated light	Not available.
Viscosity	Distillates (petroleum), hydrotreated light	Kinematic (40°C (104°F)): 0.03 cm ² /s (3 cSt)

10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability The product is stable.

Possibility of Hazardous Reactions Under normal conditions of storage and use, hazardous reactions will not occur.

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.

11. Toxicological information

Name	CAS
Nonylphenol, ethoxylated	127087-87-0
Oral - Rat - >3310 ml/kg	
Inhalation: No data available	
Dermal - Rabbit - >2000 ml/kg	
Skin corrosion/irritation Causes skin irritation	
Serious eye damage/eye irritation Causes serious eye damage	
Respiratory or skin sensitization This component is not expected to cause skin sensitization	
Germ cell mutagenicity No data available	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA	
Reproductive This component is not expected to cause reproductive or developmental effects.	
Additional information No data available	

Name	CAS
Distillates (petroleum), hydrotreated light	64742-47-8
LD50 Oral - Rat - >5000 mg/kg	
Inhalation - No data available	
LD50 Dermal - Rabbit - >2000 mg/kg	
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	No known significant effects or critical hazards.
Respiratory or skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
Reproductive	Not available.
Additional information	Adverse skin contact symptoms include irritation, dryness, and cracking. Adverse ingestion symptoms include vomiting or nausea.
Name	CAS
D-Limonene	5989-27-5
LD50 Oral - Rat - 4,400 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Result: No eye irritation
Respiratory or skin sensitization	Result: May cause sensitisation by skin contact.
Germ cell mutagenicity	Result: negative
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)
Reproductive	No data available
Additional information	no data available

12. Ecological information

Name	CAS	Toxicity
Nonylphenol, ethoxylated	127087-87-0	LC50 - fish - >10 mg/l, 96 hours Aquatic Ecotoxicity
Distillates (petroleum), hydro	64742-47-8	No data available

D-Limonene

5989-27-5

flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h
Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h
Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

Proper Shipping Name Flammable Liquids, n.o.s., (Terpenes) Marine Pollutant

Hazard Class 3

Identification Number UN1993

Packing Group III

Label Flammable

15. Regulatory information

Name	CAS
Nonylphenol, ethoxylated	127087-87-0
SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	No components were identified
PROP 65	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
Distillates (petroleum), hydrotreated light	64742-47-8
SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	Immediate (acute) health hazard, Fire Hazard
PROP 65	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
D-Limonene	5989-27-5
SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

16. Other information, including date of preparation or last revision**SDS Date:** 10/16/2017

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