

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification		
Product identifier:		ACRIFIX(TM) MO 2080
Other means of identification CAS Number: Recommended use:		586-62-9 Adhesive
Recommended restrictions:		None known.
Manufacturer/Importer/Distributor Inform	nation	
CompanyName	:	Roehm America LLC 299 Jefferson Road Parsippany, NJ 07054 USA
Telephone	:	+1 800-225-0172
E-mail	:	product-regulatory-services@roehm.com
Emergency telephone number: 24-Hour Health Emergency	:	+1 800 424 9300 (CHEMTREC - US & CANADA) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Category 3
Category 1
Category 1B

Environmental Hazards		
Acute hazards to the aquatic		

Acute hazards to the aquatic	Category 1
environment	
Chronic hazards to the aquatic environment	Category 1

Label Elements

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	Flammable liquid and vapor. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Keep away from open flames/hot surfaces No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion proof electric equipment. Use non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Specific treatment (see supplemental first aid instructions on this label). Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use carbon dioxide for extinction. In case of fire: Use foam for extinction. Collect spillage. IF ON SKIN: Wash with plenty of soap and water.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to the local / regional/national/international waste disposal regulations.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Terpinolene		586-62-9	>=90%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Solvent

The exact concentration has been withheld as a trade secret.

4. First-aid measures



Description of necessary first-aid measures

General information:	First aider needs to protect himself. Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.	
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.	
Skin Contact:	In case of contact, wash skin with soap and water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops or persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Ingestion:	If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. If swallowed, rinse mouth with water (only if the person is conscious).	
Personal Protection for First- aid Responders:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent) and full protective gear., Containers can build up pressure if exposed to heat (fire).	
Most important symptoms/effe	cts, acute and delayed	
Symptoms:	Sensitization	
Hazards:	Aspiration Hazard	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		
General Fire Hazards:	Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Toxic vapors may be given off at high temperatures. Use water spray to cool unopened containers.	
Suitable (and unsuitable) extin	guishing media	
Suitable extinguishing media:	Water spray, foam, CO2, dry powder.	
Unsuitable extinguishing media:	High volume water jet	

Specific hazards arising from
the chemical:May be released in case of fire: carbon monoxide, carbon dioxide, organic
products of decomposition.

Special protective equipment and precautions for firefighters

US

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Special fire fighting procedures:	Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air. Vapours are heavier than air and may spread along floors.	
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire).	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation. Use personal protective equipment. Do not breathe vapours or spray mist. Keep away sources of ignition. Do not eat, drink or smoke when using this product. Wash hands thoroughly with soap and water after handling. Evacuate personnel to safe areas. Vapours can form explosive mixtures with air. Refer to protective measures listed in sections 7 and 8.
Methods and material for containment and cleaning up:	Remove sources of ignition and ventilate area. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Wash thoroughly after handling. After removal, flush contaminated area with water and collect for disposal.
Environmental Precautions:	Do not contaminate any lakes, streams, ponds, groundwater or soil. Retain and dispose of contaminated wash water.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.
Safe handling advice:	Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air. Vapours are heavier than air and may spread along floors.Do not breathe vapors. Avoid contact with skin and eyes. Do not eat, drink or smoke during use.Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing mist or vapor. Avoid ingestion of substance. Keep container tightly closed. Use only with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Container hazardous when empty. Follow all SDS/label precautions even after the container is emptied because it may retain product residues. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.



Contact avoidance measures:	No data available.
Hygiene measures:	Store work clothing separately. Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.
Storage	
Safe storage conditions:	Improper disposal or re-use of this container may be dangerous and illegal.Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.
Safe packaging materials:	No data available.
Storage Temperature:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Terpinolene	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ANESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)

Appropriate EngineeringUse process enclosures, local exhaust ventilation, or other engineeringControlscontrols to control airborne levels below recommended exposure limits. Use
explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Use safety glasses (ANSI Z87.1 or approved equivalent).
Skin Protection	
Hand Protection:	Material: nitrile rubber gloves (minimal thickness 0.4 mm) Break-through time: 480 min Guideline: EN 374 Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each work-place a suitable glove type has to be selected., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and Body Protection:	Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Choose body protection according to the amount and concentration of the dangerous substance at the work place. On handling of larger quantities: face mask, chemical-resistant boots and apron



Respiratory Protection:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hygiene measures:	Store work clothing separately. Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	approx. 184 - 185 °C 363 - 365 °F (literature value)
Flash Point:	>= 60 °C (literature value) >= 140 °F (literature value)
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable
Explosive limit - upper:	6.8 %(V) (literature value)
Explosive limit - lower:	0.8 %(V) (literature value)
Vapor pressure:	0.7 hPa (20 °C) 0.7 hPa (68 °F)
Relative vapor density:	5.46
Density:	0.86 g/cm3 (68.00 °F)
Relative density:	0.861 (25 °C) (77 °F)
Solubility in Water:	not miscible or only partially miscible (literature)
Solubility (other):	miscible with most organic solvents
Partition coefficient (n-octanol/water):	4.47
Self Ignition Temperature:	No data available.
Decomposition Temperature:	This product is stable under normal storage conditions.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Other information	
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	This product is stable under normal storage conditions.

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Possibility of hazardous reactions:	Product will not undergo polymerization.
Conditions to avoid:	Avoid temperatures above 200°C / 392°F. Keep away from all ignition sources including heat, sparks and flame. Keep away from direct sunlight.
Incompatible Materials:	Reactions with strong oxidizing agents.
Hazardous Decomposition Products:	Under conditions of thermal decomposition: Carbon oxides Hydrocarbons.

11. Toxicological information

Information on likely routes of e	NY DOGINO
Inhalation:	Relevant route of exposure. Information on effects are given below.
Skin Contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	May irritate eyes.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Symptoms related to the physic	al, chemical and toxicological characteristics
Inhalation:	No specific symptoms noted.
Skin Contact:	This material contains a component which may cause skin sensitization.
Eye contact:	Eye may become red, tear, and become painful.
Ingestion:	Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	LD50 (Rat): 3,790 mg/kg [Related to substance: terpinolene]
Dermal Product:	LD50 (Rabbit): > 5,000 mg/kg [Related to substance: terpinolene]
Inhalation Product:	Based on available data, the classification criteria are not met.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	Contact with skin may cause irritations.

Serious Eye Damage/Eye Irritation Product: Contact with the eyes may cause irritation.



Respiratory or Skin Sensitizatio Product:	n , LLNA (Local Lymph Node Assay) (Mouse)Sensitising literature
Carcinogenicity Product:	Not classified No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
US. National Toxicology Program	m (NTP) Report on Carcinogens:
US. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050), as amended:
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	Not classified
Specific Target Organ Toxicity - Product:	Single Exposure Not classified no evidence for hazardous properties

 Specific Target Organ Toxicity - Repeated Exposure

 Product:
 Not classified no evidence for hazardous properties

Aspiration Hazard Product:	May be fatal if swallowed and enters airways.
Other effects:	Avoid skin and eye contact and inhalation of product vapours/aerosols.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	LC 50 (Pimephales promelas, 96 h): 0.805 mg/l
Aquatic Invertebrates Product:	LC 50 (Daphnia magna, 48 h): 0.634 mg/l

Chronic hazards to the aquatic environment:

Fish

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Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Components: Terpinolene	81 % (28 d, OECD TG 301 D) literature
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (B Product:	CF) Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Partition Coefficient n-octanol / Product:	water (log Kow) Log Kow: 4.47
Mobility in soil:	No data available.
Components: Terpinolene	No data available.
Other adverse effects:	Prevent substance from entering soil, natural bodies of water and sewer systems.
13. Disposal considerations	
General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Roehm encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.
Contaminated Packaging:	Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

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14. Transport information

IRÖHM

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	:	UN 2541 Terpinolene
Class Packing group Labels ERG Code Marine pollutant	:	3 III 3 128 yes
International Regulations		
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	:	UN 2541 Terpinolene 3 III 3 366 355
IMDG-Code UN number Proper shipping name	:	UN 2541 TERPINOLENE
Class Packing group Labels EmS Code Marine pollutant	::	3 III 3 F-E, S-E yes

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.



CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Respiratory or Skin Sensitization, Aspiration Hazard

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity Terpinolene

- US. Massachusetts RTK Substance List No ingredient regulated by MA Right-to-Know Law present.
- US. Pennsylvania RTK Hazardous Substances No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16.Other information, including date of preparation or last revision

HMIS Hazard ID

Health	1
Flammability	2
Physical Hazards	0
PERSONAL PROTECTION	В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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NFPA Hazard ID	
Hazard rating: 0 - Minimal: 1 - 5	2 0 Flammability 0 0 Health Reactivity Special hazard. Slight; 2 Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible
-	
Issue Date:	09/09/2020
Version #:	1.3
Further Information:	none
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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