

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

A0453

ALPHA PINENE

PRODUCT NAME

SUPPLIER

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FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.

Label elements

Harmful in contact with skin or if inhaled.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word Warning

Hazard statements

H226 Flammable liquid and vapor.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves / eye protection / face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with
	local/regional/national/international regulations.

Classification system:



Health = 2Fire = 3Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
FIRE 3	Fire $= 3$
REACTIVITY 0	Reactivity $= 0$

Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Chemical characterization: Substances CAS No. Description 80-56-8 pin-2(3)-ene

Identification number(s) EC number: 201-291-9

4. FIRST-AID GUIDE:

Description of first aid measures General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least48 hours after the accident.

After inhalation:

Supply fresh air and be sure to call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. FIRE-FIGHTING GUIDE:

Extinguishing media Suitable extinguishing agents: CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters Protective equipment: Mouth respiratory protective device.

Additional information Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE:

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

8. EXPOSURE AND PERSONAL PROTECTION:

Additional information about design of technical systems:

No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:	
80-56-8 pin-2(3)-ene	
TLV	Long-term value: 112 mg/m ³ , 20 ppm
	DSEN

Additional information:

The lists that were valid during the creation were used as a basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eve protection:



Tightly sealed goggles

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Conserved Information	
General Information	
Appearance:	
Form:	Liquid
Color:	Colorless to pale yellow
Odor:	Pine
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-50 °C (-58 °F)
Boiling point/Boiling range:	156.2 °C (313 °F)
Flash point:	33 °C (91 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	255 °C (491 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation
	of explosive air/ vapor mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.8592 g/cm ³ (7.17 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	0.0 %
Other information	No further relevant information available.

Information on basic physical and chemical properties

10. STABILITY AND REACTIVITY:

Reactivity Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects Acute toxicity: Primary irritant effect: On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information: Carcinogenic categories IARC (International Agency for Research on Cancer) Substance is not listed.

NTP (National Toxicology Program) Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12. ECOLOGICAL INFORMATION:

Toxicity Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems: Bioaccumulative potential No further relevant information available.

Mobility in soil

No further relevant information available.

Ecotoxical effects: Remark:

Toxic for fish

Additional ecological information: General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Results of PBT and vPvB assessment PBT:

Not applicable.

vPvB: Not applicable.

Other adverse effects

No further relevant information available.

13. DISPOSAL RECOMMENDATIONS:

Waste treatment methods Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION:

UN-Number	
DOT, ADR, IMDG, IATA	UN2368
UN proper shipping name	
DOT	Alpha-Pinene
ADR	2368 alpha-Pinene
IMDG, IATA	Alpha-PINENE
Transport hazard class(es)	

DOT		
3		
V		
Class	3 Flammable liquids	
Label	3	
ADR		
V		
Class	3 (F1) Flammable liquids	
Label	3	
IMDG, IATA	5	
Class		
Label	3 Flammable liquids	
	3	
Packing group		
DOT, ADR, IMDG, IATA	III	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler):	30	
EMS Number:	F-E,S-E	
Transport in bulk according to		
Annex II of	Not applicable.	
MARPOL73/78 and the IBC Code		
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 60 L	
-	On cargo aircraft only: 220 L	
ADR		
Excepted quantities (EQ)	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
IMDG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	Code: E1	
Esceptica quantities (EQ)	Maximum net quantity per inner packaging: 30 ml	
	maximum net quantity per niner packaging. 50 mi	

	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN2368, alpha-Pinene, 3, III

15. REGULATORY INFORMATION:

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): Substance is listed.

Proposition 65 Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency) Substance is not listed.

TLV (Threshold Limit Value established by ACGIH) 80-56-8 pin-2(3)-ene A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

GHS label elements

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Hazard pictograms

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Hazard statements

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	clothing. Rinse skin with water/shower.
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P501	Dispose of contents/container in accordance with
	local/regional/national/international regulations.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

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