

M.S.C.

Material Safety Data Sheet

Emergency Telephone Number
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Science Products Division
P.O. Box M
Paris, Kentucky 40361

Effective Date: 07-30-85

PRODUCT IDENTIFICATION:

Synonyms: Pyroxylin Purified Strips

Formula CAS No.: 9004-70-0

Molecular Weight: 504.28

Hazardous Ingredients: Nitrocellulose

Chemical Formula: C₁₂H₁₆N₄O₁₈

PRECAUTIONARY MEASURES

WARNING! FLAMMABLE! CAUSES BURNS.

Keep away from heat, sparks and flame.
Do not get in eyes, on skin, or on clothing.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

EMERGENCY FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician.
SEE SECTION 5.

DOT Hazard Class: Flammable Solid

Physical Data

Appearance: Thin, transparent, colorless to pale yellow strips.

Odor: Slight odor of alcohol.

Solubility: Insoluble in water.

Boiling Point: No information found.

Vapor Density (Air=1): No information found.

Melting Point: Ignites @ 165 C (329 F)

Vapor Pressure (mm Hg): No information found.

Specific Gravity: 1.66

Evaporation Rate: Not Applicable

NFPA Ratings: Health: 2 Flammability: 3 Reactivity: 3

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Fire and Explosion**Information****Fire:****SECTION 2**

Flammable! Flash Point: 13 C (55 F) Autoignition Temperature: 165 C (329 F) Presents an unusually severe fire hazard; when dry, ignites readily and burns explosively. Should never be kept for any appreciable time in any dry fibrous state. Unstabilized product decomposes gradually at relatively low temperature, with evolution of copious volumes of toxic and flammable gases, and rapid heat generation. In prolonged storage and aging of nitrocellulose plastics, camphor is lost with deterioration and the decomposition temperature may be lowered to 100 F. The resulting flameless decomposition is self-sustaining and accelerative, presenting the added hazard of dangerous pressures in building structures.

Explosion:

An explosion may be initiated by sudden shock, by high temperature or by a combination of the two.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use extreme caution in approaching fires involving this material as it may explode. No attempt should be made to fight advanced fires, except for remote activation of installed fire extinguishing equipment and/or with unmanned fixed turrets and hose nozzles. The surrounding area should be evacuated. Fires should be approached from upwind and self-contained breathing apparatus used. Since cellulose nitrate supplies its own oxygen, prompt cooling with a large quantity of water is essential; water applied through spray nozzles is effective if used quickly and in sufficient volume, in a manner to wet the entire exposed surface.

Reactivity Data**SECTION 3****Stability:**

Stable at room temperature in sealed containers.

Hazardous Decomposition Products:

Oxides of nitrogen, hydrogen cyanide, carbon monoxide.

Hazardous Polymerization:

Will not occur.

Leak/Spill Disposal Information SECTION 4

Dangerous material. Partially decomposed material may detonate or autoignite. Handle decomposed material as an explosive that may detonate with mild shock using explosive disposal procedures. Submerge fresh parlodion strips in water and burn in small quantities in an approved incinerator.

Ensure compliance with local, state and federal regulations.

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Occupational Control Measures

SECTION 5

Airborne Exposure Limits: None established.

Ventilation System: A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators (NIOSH Approved) For conditions of use where exposure to the vapor is apparent, a half mask chemical cartridge respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information

SECTION 7

Drums should be protected against damage and not exposed to heating, nor should material be allowed to dry out. Storage should be segregated, well ventilated, and equipped with both decomposition and explosion vents, having the maximum amount of free opening. Protect against excessive heat and direct sunlight, avoid contact with electric light bulbs, steam coils, or other sources of heat; prohibit open flames or other sources of ignition.

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Addendum to Material Safety Data Sheet

REGULATORY STATUS

Hazard Categories for SARA
Section 311/312 Reporting

Acute	Chronic	Fire	Pressure	Reactive
X		X		X

Product or Components of Product:	SARA EHS Sec. 302		SARA Sec. 313 Chemicals		CERCLA Sec. 103	RCRA Sec.
	RQ	TPQ	Name List	Chemical Category	RQ lbs	261.33
PARLODION (tm) Nitrocellulose (9004-70-0)	No	No	No	No	No	No

SARA Section 302 EHS RQ:

Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:

Threshold Planning Quantity of Extremely Hazardous substance. An Asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec. 103:

Comprehensive Environmental Response, Compensation and Liability Act (Superfund).

Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4

RCRA:

Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

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