

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Telephone numbers: (517) 546-4520

Manufacturer/Supplier: CHEM-TREND LP
P.O. BOX 860
HOWELL, MI 48844-0860

Product Name: Chem-Trend® Flow Promoter

2. HAZARDS IDENTIFICATION

Physical State: Aerosol

Appearance: Aerosol

Color: Off-white

Odor: Solvent

Emergency Overview: DANGER: EXTREMELY FLAMMABLE!

Principle Routes of Exposure: Skin, Eyes, Upper respiratory tract, Gastrointestinal tract

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Hexane	110-54-3	30 - 40%
Acetone	67-64-1	10 - 20%
Methylcyclopentane	96-37-7	1 - 5%
Ester solvent	-	1 - 5%
Propane/isobutane/N-butane	68476-86-8	20 - 30%
Release blend	-	10 - 20%

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4. FIRST AID MEASURES

Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.. Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis. Call a physician or poison control center immediately.
Aggravated Medical Conditions:	No information available
Notes to physician:	No information available

5. FIRE-FIGHTING MEASURES

Flash point:	-9 °F , -23°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
Flame extension test, inches (aerosol products only):	Not applicable, no information available.
Suitable extinguishing media:	Foam. Dry chemical. Carbon dioxide (CO2). Do not use a direct stream of water..
Unusual hazards:	Extremely flammable. The pressure in sealed containers can increase under the influence of heat.
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
Specific methods:	Standard procedure for chemical fires.
Explosive properties:	No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up:

Small spills:	Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste.
Large spills:	Take precautionary measures against static discharges. Pick up and transfer to properly labelled containers.

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7. HANDLING AND STORAGE

Handling:

Technical measures/precautions Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Safe handling advice: Normal measures for preventive fire protection
Handle in accordance with good industrial hygiene and safety practice.
Take precautionary measures against static discharges
Bond and ground containers during transfer of material.
Keep away from open flames, hot surfaces and sources of ignition
Do not puncture empty containers.
Do not re-use empty containers for other materials.

Storage:

Technical measures/storage conditions: Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 110°F.

Incompatible products: Strong oxidizing agents.

Other precautions: The pressure in sealed containers can increase under the influence of heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS-No.	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
Hexane	110-54-3	50 ppm	500ppmTWA 1800mg/m ³ TW A	-	-
Acetone	67-64-1	500 ppm 750 ppm	1000ppmTWA 2400mg/m ³ TW A	-	-
Methylcyclopentane	96-37-7	-	-	-	-
Ester solvent	-	-	-	-	-
Propane/isobutane/N-butane	68476-86-8	-	-	-	-
Release blend	-	-	-	-	-

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Engineering measures: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

- Respiratory protection:** Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:** Impervious gloves
- Eye protection:** Tightly fitting safety goggles or safety glasses with side-shields
- Skin and body protection:** Lightweight protective clothing. Usual safety precautions while handling the product will provide adequate protection against this potential effect.

9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point:	133 °F, 56°C
Specific gravity:	0.73
Bulk density (lb/gal):	6.08
Vapor pressure (mm Hg, 20 °C (68 °F)):	Not determined.
Vapor density (Air = 1.0)	Not determined.
Evaporation rate:	Not determined.
Volatiles content (%):	80 - 90 %
Water solubility:	Insoluble
pH of concentrate:	Not applicable.
Melting point range:	Not applicable
Flash point:	-9 °F , -23°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
Flammability limits in air:	Percent by volume

Components	CAS-No.	Lower (%):	Upper (%):
Hexane	110-54-3	1.1	7.5
Propane/isobutane/N-butane	68476-86-8	1.8	9.5
Acetone	67-64-1	2.5	12.8

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10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides.
Polymerization:	Hazardous polymerization does not occur.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Components	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation (Vapor)
Hexane	110-54-3	-	3000 mg/kg (rabbit)	48000 ppm (rat)
Acetone	67-64-1	-	-	-
Methylcyclopentane	96-37-7	-	-	-
Ester solvent	-	3200 mg/kg (rat)	-	-
Propane/isobutane/N-butane	68476-86-8	-	-	-
Release blend	-	-	-	-

Acute effects

Product contains proprietary ingredients. Health hazards are listed below.

- Skin contact:** Prolonged contact may defat skin, causing irritation and/or dermatitis.
- Eye contact:** Contact with eyes may cause irritation
- Inhalation:** High levels above the TLV cause stupor, headache, nausea, dizziness, unconsciousness, and may produce adverse effects on vision.
- Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury.
- Sensitization:** No information available.
- Other effects:** No information available.

Chronic effects

Carcinogenic effects:

Components	CAS-No.	NTP:	IARC:	OSHA:
Hexane	110-54-3	No	No	No
Acetone	67-64-1	No	No	No
Methylcyclopentane	96-37-7	No	No	No
Ester solvent	-	No	No	No
Propane/isobutane/N-butane	68476-86-8	No	No	No
Release blend	-	No	No	No

- Mutagenic effects:** No information available
- Reproductive toxicity:** No information available
- Target Organ Effects:** Overexposure to hexanes can cause progressive and potentially irreversible damage to the central nervous system, respiratory system, skin, kidneys, liver, and the peripheral nervous system, particularly in the extremities

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

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13. DISPOSAL CONSIDERATIONS

Method(s) of disposal: Dispose of in accordance with local, state, and federal regulations.

US EPA Waste number: D001 because of its ignitability if the product is disposed of in its original form.
F003 because of the presence of acetone, methanol, xylene, or ethylbenzene.

14. TRANSPORT INFORMATION

IMDG - Marine Pollutants This product does not contain marine pollutants as classified by the International Maritime Organization.

Emergency Response Guidebook (ERG) No: 126

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name	Hazard Class:		Packing group:
DOT - Non-Bulk	-	Consumer commodity	-	ORM-D		-
DOT - Bulk	-	Consumer commodity	-	ORM-D		-
Canadian TDG	-	Consumer commodity	-	ORM-D		-
ICAO/IATA	ID8000	Consumer commodity	-	9		-
IMO/IMDG	UN1950	Aerosols	-	2.1		-

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15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Chemical: Yes

SARA Title III

CERCLA/SARA (304) Hazardous Substances and RQs

Components	CAS-No.	Weight %	RQ
Hexane	110-54-3	30 - 40%	5000 lb
Acetone	67-64-1	10 - 20%	5000 lb
Methylcyclopentane	96-37-7	1 - 5%	-
Ester solvent	-	1 - 5%	-
Propane/isobutane/N-butane	68476-86-8	20 - 30%	-
Release blend	-	10 - 20%	-

SARA (302) Extremely Hazardous Substances and RQs

Components	CAS-No.	Weight %	TPQ
Hexane	110-54-3	30 - 40%	-
Acetone	67-64-1	10 - 20%	-
Methylcyclopentane	96-37-7	1 - 5%	-
Ester solvent	-	1 - 5%	-
Propane/isobutane/N-butane	68476-86-8	20 - 30%	-
Release blend	-	10 - 20%	-

SARA (311/312) Classification:

Acute health hazard: Yes

Chronic health hazard: Yes

Fire: Yes

Sudden Release of Pressure No

Reactive: No

SARA (313) Toxic Chemicals

Components	CAS-No.	Weight %	SARA (313) List
Hexane	110-54-3	30 - 40%	X
Acetone	67-64-1	10 - 20%	Not Listed
Methylcyclopentane	96-37-7	1 - 5%	Not Listed
Ester solvent	-	1 - 5%	Not Listed
Propane/isobutane/N-butane	68476-86-8	20 - 30%	Not Listed
Release blend	-	10 - 20%	Not Listed

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International Inventories

Australia:	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
Canada:	This product complies with DSL
China:	This product complies with CLECS.
Europe:	This product complies with EINECS
Japan:	This product complies with ENCS/MITI.
Korea:	Listed on ECL.
New Zealand:	This product complies with NZIoC
Philippines:	This product complies with PICCS.
United States:	This product complies with TSCA.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

Health 2* **Flammability:** 4 **Physical hazard:** 0 **Personal Protection code:** H

National Fire Protection Association (USA):

Health: 2 **Flammability:** 4 **Instability:** 0 **Special Hazards:** None/Not available

All revisions are marked with one or more asterisks (*)

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