

SECTION 1: PRODUCT AND COMPANY INFORMATION

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Product Family Fuel Additive

Trade Name Chemolene Fuel Additive

Product ID Chemolene Fuel Additive

Recommended Uses Industrial Fuel Additive

24-Hour Emergency Phone Number
800.424.9300 Chemtrec

SECTION 2: HAZARD IDENTIFICATION



Pictogram: Flame – Health Hazard – Exclamation Mark - Environment

Signal Word: **DANGER**

Physical Hazard: Flammable Liquids - Category 1 - Extremely flammable liquid and vapor

Health Hazards: Specific Target Organ Toxicity (Single Exposure) – Category 3 - May cause drowsiness or dizziness.
 Aspiration hazard - Category 1 - May be fatal if swallowed and enter airways.

Precautionary statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. Avoid release to the environment

Response: **IN CASE OF FIRE:** Use dry sand, dry chemical or alcohol-resistant foam for extinction.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. Do NOT induce vomiting.

Collect spillage

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

Environmental Hazards: Acute aquatic toxicity - Category 2 - Toxic to aquatic life.
 Chronic aquatic toxicity - Category 2 - Toxic to aquatic life with long lasting effects.

HNOC:* Repeated exposure may cause skin dryness or cracking.

Supplemental Info: None

* Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Percent (wt.)
Pentane	109-66-0	95-100
Hydrocarbon Mixture	Mixture	0-5

SECTION 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: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Indication of any immediate medical attention and special treatment needed: No data available

Safety Data Sheet: Chemolene Plus

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to Section 8: Exposure Control and Personal Protection

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections: For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

Refer to Section 8: Exposure Control and Personal Protection

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Refrigerate before opening. Storage class (TRGS 510): Flammable liquids

Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters:

Components with workplace control parameters:

N-Pentane 109-66-0 TWA 120 ppm / 350 mg/m³ USA. NIOSH Recommended Exposure Limits C 610 ppm 1,800 mg/m³ USA. NIOSH Recommended Exposure Limits Remarks 15 minute ceiling value TWA 1,000 ppm 2,950 mg/m³ USA. Occupational Exposure Limits

(OSHA) - Table Z-1 Limits for Air Contaminants The value in mg/m³ is approximate. TWA 600 ppm USA. ACGIH Threshold Limit Values (TLV) Peripheral neuropathy Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) TWA 1,000 ppm USA. ACGIH Threshold Limit Values (TLV) narcosis respiratory tract irritation 2014 Adoption

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping

Safety Data Sheet: Chemolene Plus

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Colorless Liquid	Flash Point (°F/°C)	-56.18 / -48.99
Specific Gravity (Water=1)	5.26 lbs./gal. @ 68°F	Lower/Upper Flammability Limits (Vol. %)	1.4 / 8.3
pH	NA	Auto-ignition Temperature (AIT) (°F/°C)	500 / 260
Solubility in Water (% at 68/20)	Slightly	Decomposition Temperature	NA
Odor	Like Gasoline	Evaporation Rate	NA
Odor Threshold	Not Determined	Vapor Density (Air=1)	NA
Melting/Freezing Point (°F/°C)	-202 / -130	Partition Coefficient (n-octanol/water)	3.39
Boiling Range (°F/°C)	95-97 / 35-36	Viscosity	NA
Initial Boiling Point (°F/°C)	-34 / -0	Critical Temperature	NA
Vapor Pressure (@ 100°F /) 579.0 hPa (434.3 mmHg) at 20.0 °C (68.0 °F) 1,859.7 hPa (1,394.9 mmHg) at 55.0 °C (131.0 °F)			
Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products: Other decomposition products - No data available. In the event of fire: see section 5

Polymerization: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity LD50 Oral - Mouse - 5,000 mg/kg LC50 Inhalation - Rat - 4 h - 364,000 mg/m³ LD50 Dermal - Rabbit - 3,000 mg/kg No data available Skin corrosion/irritation Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: Ames test S. typhimurium Result: negative

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional Information: Contact with eyes can cause, Redness, Blurred vision, Provokes tears. Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Central nervous system depression, Damage to the lungs. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 9.74 mg/l - 48 h 12.2 Persistence and degradability Biodegradability Biotic/Aerobic - Exposure time 192 h Result: 70 % - Readily biodegradable

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Do not empty into drains.

SECTION 13: DISPOSAL CONSIDERATION

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Safety Data Sheet: Chemolene Plus

SECTION 14: TRANSPORT INFORMATION

DOT (US) UN number: 1265 **Class:** 3 **Packing group:** II **Proper shipping name:** Pentanes **Reportable Quantity (RQ):**

Poison Inhalation Hazard: No

IMDG: UN number: 1265 **Class:** 3 **Packing group:** II **EMS-No:** F-E, S-D **Proper shipping name:** PENTANES

Marine pollutant: yes

IATA: UN number: 1265 **Class:** 3 **Packing group:** II **Proper shipping name:** Pentanes

SECTION 15: REGULATORY INFORMATION

TSCA: All components of this product are listed on the U.S. TSCA inventory

DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL)

EPA Superfund Amendment & Reauthorization Act (SARA): CERCLA/SARA: Section 302 Extremely Hazardous Substances and TPQs - None

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: n-Pentane CAS-No. 109-66-0 Revision Date 1993-04-24

Pennsylvania Right to Know Components: n-Pentane CAS-No. 109-66-0 Revision Date 1993-04-24

New Jersey Right to Know Components: n-Pentane CAS-No. 109-66-0 Revision Date 1993-04-24

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating: Health hazard: 0 Chronic Health Hazard: * Flammability: 4 Physical Hazard 0

NFPA Rating: Health hazard: 0 Fire Hazard: 4 Reactivity Hazard: 0

SECTION 16: OTHER INFORMATION

Disclaimer: The information and recommendations contained herein are, to the best of Chemweld's knowledge and belief, accurate and reliable as of the date issued. Chemweld does not warrant or guarantee their accuracy or reliability, and Chemweld shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's considerations and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal council should be consulted to insure proper health, safety and other necessary information is included on the container.