



MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Date : 06/01/2001

Chevron Turbine Oil
GST ISO 32, 46, 68, 100, EP ISO 32

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Turbine Oil GST

PRODUCT NUMBER(S): CPS220091, CPS253026, CPS253027, CPS253028, CPS23029, CPS253030

SYNONYM: CHEVRON Turbine Oil GST EP ISO 32, CHEVRON Turbine Oil GST ISO 100, CHEVRON Turbine Oil GST ISO 32, CHEVRON Turbine Oil GST ISO 46, CHEVRON Turbine Oil OST ISO 68, CHEVRON Turbine Oil Symbol 2190 TEP

COMPANY IDENTIFICATION

Chevron Products Company
Global Lubricants
555 Market St.
Room 803
San Francisco, CA 94105-2870

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800) 231-0623 or (510) 231-1623 (International)
TRANSPORTATION (24 hr.) CHEMTREC: (800) 424-9300 or (703) 527-3887
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500

Environmental, Safety & Health Info: (415) 894-0703

Product Information: (800) 582-3835

SPECIAL NOTES: This MSDS is for CHEVRON Turbine Oil GST and Symbol Products.

2. COMPOSITION / INFORMATION INGREDIENTS

100.0% CHEVRON Turbine Oil GST

Table with 4 columns: CONTAINING COMPONENTS, AMOUNT, LIMIT/QTY, AGENCY/TYPE. Row 1: SEVERELY REFINED PETROLEUM DISTILLATE, > 98.00%, 5 mg/m³ (mist), ACGIH TWA. Row 2: 10 mg/m³ (mist), ACGIH STEL. Row 3: 5 mg/m³ (mist), OSHA PEL.

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

ADDITIVES < 2.00%

COMPOSITION COMMENTS:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Not expected to cause prolonged or significant eye irritation.

SKIN: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first, but if left untreated, could result in disfigurement or amputation of the affected part.

INGESTION: Not expected to be harmful if swallowed.

INHALATION: Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

4. FIRST AID MEASURES

EYE: No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.

SKIN: No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION: No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

INHALATION: If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

NOTE TO PHYSICIANS: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

5. FIRE FIGHTING MEASURES

SPECIAL NOTES: Leaks/ruptures in high pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg.: open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION: Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 374-464 °F (190-240 °C) Min.

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA; Upper: NA

EXTINGUISHING MEDIA: CO₂, Dry Chemical, Foam, Water Fog.

NFPA RATINGS: Health 0; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS: This material will burn although it is not easily ignited.

COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24hr): (800) 424-9300 or (703) 527-3887. International Collect Calls Accepted.

ACCIDENTAL RELEASE MEASURES: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in a well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Nitrile><Silver Shield><Viton><4H>

RESPIRATORY PROTECTION: No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Clear to yellow liquid

VAPOR PRESSURE: NA

BOILING POINT: NDA

MELTING POINT: NA

SPECIFIC GRAVITY: 0.87-0.88 @ 15.6/15.6C

EVAPORATION RATE: NA

PERCENT VOLATILE (VOL): NA

pH: NDA

VAPOR DENSITY (AIR=1): NA

FREEZING POINT: NDA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water

VOLATILE ORGANIC COMPOUNDS (VOC): 1.8 wt.%, 15.51 g/l.

VISCOSITY: 28.8-90 cSt @40°C (min.)

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: No data available.

INCOMPATIBILITY WITH OTHER MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: The eye irritation hazard is based on an evaluation of the data for the components.

SKIN EFFECTS: The skin irritation hazard is based on an evaluation of the data for the components.

ACUTE ORAL EFFECTS: The acute oral irritation hazard is based on an evaluation of the data for the components.

ACUTE INHALATION EFFECTS: The acute inhalation irritation hazard is based on an evaluation of the data for the components.

ADDITIONAL TOXICOLOGICAL INFORMATION: This product contains petroleum base oils which may be refined by various processes including solvent extraction, severe hydrocracking or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicological Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. ECOLOGICAL INFORMATION

ECOTOXICITY: This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE: This material is not expected to be readily biodegradable.