

SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	SOLVO
Other means of identification	5004; 5020; 5205
Recommended use and restrictions on use	Solvent & diluent. 4 L, 20 L and 205 L container.
Initial supplier identifier	Asalco Inc. 44, ch. Des Ursulines, Stanstead, Québec (Canada), J0B 3E0 Telephone 819-876-2211; Fax 819-876-5373; Internet www.asalco.com
Emergency telephone number/restriction on use	Canada – CANUTEC 24 hour number 613-996-6666

Section 2. Hazard identification

Classification of hazardous product (name of the category or subcategory of the hazard class)
Flammable liquid (Category 3) Aspiration hazard (Category 1) Skin irritation (Category 2) Skin sensitization (category 1) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3), Central nervous system
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Danger

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands/nails/face thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a doctor. P331 DO NOT INDUCE VOMITING. P302 + P352 IF ON SKIN: wash with plenty of water. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P332 + P313 IF SKIN irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. P305 + P351 + P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P370 + P378 In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish. P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards known	None
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Section 3. Composition/information on ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Hydrotreated heavy naphtha	64742-48-9	60-100 %
D-Limonene	5989-27-5	10-30 %
Dipropylene glycol monomethyl ether	34590-94-8	10-30 %

Section 4. First-aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
Ingestion	IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (15-20 minutes). IF SKIN irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	May be harmful if swallowed and enters airways.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

Section 5. Fire-fighting measures			
Specific hazards of the hazardous product (hazardous combustion products)			
Carbon oxides and other irritant/toxic gases and fumes.			
Suitable and unsuitable extinguishing media			
In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish.			
Special protective equipment and precautions for fire-fighters			
During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.			
Section 6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures			
Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).			
Methods and materials for containment and cleaning up			
Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.			
Section 7. Handling and storage			
Precautions for safe handling			
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands/nails/face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear gloves/protective clothing/eye protection/face protection.			
Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.			
Conditions for safe storage, including any incompatibilities			
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.			
Section 8. Exposure controls/Personal protection			
Control parameters (biological limit values or exposure limit values and source of those values)			
Exposure limits: CAS 34590-94-8 ACGIH – TLV-TWA 100 ppm (STEL 150 ppm) & PEL-TWA 100 ppm;			
Appropriate engineering controls			
Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.			
Individual protection measures/personal protective equipment			
Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.			
Section 9. Physical and chemical properties			
Appearance, physical state/colour	Clear liquid	Vapour pressure	Not available
Odour	Fruity	Vapour density	Heavier than air
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Not available
Melting/freezing point	Not available	Partition coefficient - n-octanol/water	Not available
Initial boiling point/range	Not available	Auto-ignition temperature	Not available
Flash point	40°C Tag closed cup	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solids and gases)	Not available	VOC	Not available
Upper and lower flammability/explosive limits	Not available	Other	None known

Section 10. Stability and reactivity		
Reactivity		
Does not react under the recommended storage and handling conditions prescribed.		
Chemical stability		
Stable under the recommended storage and handling conditions prescribed.		
Possibility of hazardous reactions		
Accumulation of flammable if product is heated.		
Conditions to avoid (static discharge, shock or vibration)		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Incompatible materials		
Oxidizing materials; etc.		
Hazardous decomposition products		
None known		
Section 11. Toxicological information		
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)		
May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.		
Symptoms related to the physical, chemical and toxicological characteristics		
Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.		
Delayed and immediate effects (chronic effects from short-term and long-term exposure)		
Skin Sensitization – Possible; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – Central nervous system; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – Possible; Health Hazards Not Otherwise Classified – No data available.		
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)		
CAS 5989-27-5 LD ₅₀ Oral - Rat - 4400 mg/kg; CAS 34590-94-8 LD ₅₀ (oral, rat) 5220 mg/kg; ATE not available in this document.		
Section 12. Ecological information		
Ecotoxicity (aquatic and terrestrial information)	No data available for the product.	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Other adverse effects	No data available	
Section 13. Disposal considerations		
Information on safe handling for disposal/methods of disposal/contaminated packaging		
Dispose of contents/container into safe container in accordance with local, regional or national regulations.		
Section 14. Transport information		
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations		
UN1993; FLAMMABLE LIQUID, N.O.S. (Hydrotreated heavy naphtha; D-Limonene); CLASS 3; PG III		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)		
UN1993; FLAMMABLE LIQUID, N.O.S. (Hydrotreated heavy naphtha; D-Limonene); CLASS 3; PG III		
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)		
UN1993; FLAMMABLE LIQUID, N.O.S. (Hydrotreated heavy naphtha; D-Limonene); CLASS 3; PG III		
Special precautions (transport/conveyance)	May also be shipped as NOT REGULATED by ground in accordance with TDG.	
Environmental hazards (IMDG or other)	None	
Bulk transport (usually more than 450 L in capacity)	Possible	
Section 15. Regulatory information		
Safety/health Canadian regulations specifics	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).	
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL	
Safety/health/environmental outside regulations specifics		
United States OSHA information: This product is regulated according to OSHA (29 CFR).		
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.		
United States TCSA information: Refer to the ingredients listed in Section 3.		
National Fire Protection Association (NFPA):		
HEALTH: 2 FLAMMABILITY: 2 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3.		
HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe		

Section 16. Other information	
Date of the latest revision of the safety data sheet February 25, 2016 version 1 (NSS ENTREPRISE INC.)	
References	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.	