

1. Identification

Product identifier HyVolt C50A
Other means of identification None.
Recommended use Transformer Oil
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Company: Ergon, Inc.
Address: P.O. Box 1639
 Jackson, MS 39215
E-mail: sds@ergon.com
Emergency Contacts
Customer Service: 1-800-222-7122
Chemtrec: 1-800-424-9300 After Business Hours (North America Only)
 1-703-527-3887 After Business Hours (International)
Supplier Not available.

2. Hazard identification

Physical hazards Not classified.
Health hazards Aspiration hazard Category 1
Environmental hazards Not classified.

Label elements



Signal word Danger
Hazard statement May be fatal if swallowed and enters airways.
Precautionary statement
Prevention Do not breathe gas/mist/vapors/spray.
Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Storage Store locked up.
Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. See section 13 of this SDS for disposal instructions.
Other hazards None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
OIL, MINERAL		64742-53-6	65 - 85
C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES		848301-69-9	0 - 40
OIL, MINERAL		64742-55-8	0 - 35

Chemical name	Common name and synonyms	CAS number	%
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED		72623-86-0	0 - 20
BUTYLATED HYDROXYTOLUENE (BHT)		128-37-0	< 1
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.		64742-94-5	< 1

4. First-aid measures

Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.
Skin contact	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye contact	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Defatting of the skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Contact physician if discomfort continues.

5. Fire-fighting measures

Suitable extinguishing media	Halon. Dry chemicals. Foam. Carbon dioxide (CO ₂). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use pressurized air mask if product is involved in a fire.
General fire hazards	No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.
Methods and materials for containment and cleaning up	<p>Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

7. Handling and storage

Precautions for safe handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Use care in handling/storage.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m ³	Inhalable fraction and vapor.
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED (CAS 72623-86-0)	TWA	5 mg/m ³	Inhalable fraction.
OIL, MINERAL (CAS 64742-55-8)	TWA	5 mg/m ³	Inhalable fraction.
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)	TWA	200 mg/m ³	Non-aerosol.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m ³	
C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES (CAS 848301-69-9)	TWA	1590 mg/m ³	
		400 ppm	
OIL, MINERAL (CAS 64742-55-8)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)	TWA	200 mg/m ³	Vapor.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m ³	Vapor and aerosol, inhalable.
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED (CAS 72623-86-0)	TWA	1 mg/m ³	Mist.
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)	TWA	200 mg/m ³	Non-aerosol.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Material	Type	Value	Form
HyVolt C50A	TWA	5 mg/m3	Inhalable fraction.
Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
OIL, MINERAL (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
OIL, MINERAL (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Material	Type	Value	Form
HyVolt C50A	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m3	
C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES (CAS 848301-69-9)	TWA	1590 mg/m3	
		400 ppm	
OIL, MINERAL (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
OIL, MINERAL (CAS 64742-53-6)	STEL	10 mg/m3	Mist.
OIL, MINERAL (CAS 64742-55-8)	TWA	5 mg/m3	Mist.
OIL, MINERAL (CAS 64742-53-6)	TWA	5 mg/m3	Mist.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	15 minute	4 mg/m3	Inhalable fraction and vapor.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	Form
	8 hour	2 mg/m3	Inhalable fraction and vapor.
C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES (CAS 848301-69-9)	15 minute	500 ppm	
	8 hour	400 ppm	
OIL, MINERAL (CAS 64742-55-8)	15 minute	10 mg/m3	
OIL, MINERAL (CAS 64742-53-6)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
OIL, MINERAL (CAS 64742-55-8)	8 hour	5 mg/m3	
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)	15 minute	250 mg/m3	Vapor.
	8 hour	200 mg/m3	Vapor.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Canada - Alberta OELs: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5) Can be absorbed through the skin.

Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles/face shield are recommended.

Skin protection

Hand protection Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.

Respiratory protection Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not available.

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

9. Physical and chemical properties

Appearance	Clear & bright
Physical state	Liquid.
Form	Liquid.
Color	Water White to Pale
Odor	Mild Petroleum Odor
Odor threshold	Not available.
pH	Not applicable
Melting point/freezing point	-85 °F (-65 °C) ASTM D5950
Initial boiling point and boiling range	545 °F (285 °C) ASTM D2887/ ISO 3294
Flash point	289.4 °F (143.0 °C) Pensky-Martens Closed Cup ASTM D93/ ISO 2719 311.0 °F (155.0 °C) Cleveland Open Cup ASTM D92/ ISO 2592
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.89 (59 °F (15 °C) ASTM D4052/ ISO 12185)
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not established.
Auto-ignition temperature	> 599 °F (> 315 °C) ASTM E659
Decomposition temperature	Not available.
Viscosity	9.5 cSt (104 °F (40 °C) ASTM D445)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May be fatal if swallowed and enters airways.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis
Eye contact	May be irritating to eyes.
Ingestion	May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.

Information on toxicological effects

Acute toxicity Not applicable.

Components	Species	Test Results
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C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES (CAS 848301-69-9)

Acute

Inhalation

LC50	Rat	61 mg/l, 4 Hours
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Not available. * Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation May cause defatting of the skin, but is neither an irritant nor a sensitizer.

Serious eye damage/eye irritation Not classified. May cause minor irritation on eye contact.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization Not classified. May cause defatting of the skin, but is neither an irritant nor a sensitizer.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Note L - Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. Not classified.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information Risk of chemical pneumonia after aspiration.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Product	Species	Test Results
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HyVolt C50A

Aquatic

Crustacea	EC50	Daphnia	23.0633 mg/l, 48 hours estimated
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Fish	LC50	Fish	58.9391 mg/l, 96 hours estimated
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Components	Species	Test Results
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BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)

Aquatic

Crustacea	EC50	Water flea (Daphnia pulex)	1.44 mg/l, 48 hours
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C18-C50 BRANCHED, CYCLIC AND LINEAR HYDROCARBONS – DISTILLATES (CAS 848301-69-9)

Aquatic

Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours
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Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours
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8.8 mg/l, 96 hours

Not available. * Estimates for product may be based on additional component data not shown.

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Mobility in soil Not available.
Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous waste code Not applicable.

Waste from residues / unused products Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

14. Transport information

TDG Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

General information Not regulated as dangerous goods.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

HyVolt oils are certified to be PCB-free. HyVolt oils are processed from naturally occurring raw materials with no additives or recycled oils that might introduce PCB contamination.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	09-23-2019
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Further information	Local CHEMTREC Numbers: CHEMTREC China: 4001-204937 CHEMTREC EU (Brussels): +(32)-28083237 CHEMTREC Indonesia: 001-803-017-9114 CHEMTREC Malaysia: +(60)-327884561 CHEMTREC Mexico: 1-800-681-9531 CHEMTREC Singapore: +(65)-31581349

References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Chemical Abstracts Service Registry Handbook CRC: Handbook of Chemistry and Physics ILO Safety Cards International Labour Organization International Maritime Organization Marine Pollutants List NFPA Hazardous Chemical Data Sheets NIOSH Pocket Guide Registry of Toxic Effects of Chemical Substances (RTECS) US DOT Hazardous Materials Regulations
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Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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