SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture HyVolt III NG

Registration number 01-2119480375-34

Synonyms HyVolt III NG SA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Transformer Oil

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

MANUFACTURER: Ergon, Inc.
P.O. Box 1639
Jackson, MS 39181 USA

EU Contact: Ergon International, Inc.
Drève Richelle 161 Building C
B-1410 Waterloo, Belgium

Emergency Phone Numbers:

US Customer Service: + 1-800-222-7122

CHEMTREC: + 1-800-424-9300 After Business Hours (North America)
+ 1-703-527.-3887 (International),
+32-28083237 (Belgium)
+33-975181407 (France)
+49-69643508409 (Germany)
+39-0245557031 (Italy)
+34-931768545 (Spain)

E-mail: sds@ergon.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Distillates (petroleum), hydrotreated light naphthenic, Distillates (petroleum), hydrotreated light paraffinic

Hazard pictograms

Signal word Danger

Hazard statements

H412 Harmful to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention

P273	Avoid release to the environment.
P260	Do not breathe gas/mist/vapours/spray.

Response

P331	Do NOT induce vomiting.

Storage

P405	Store locked up.

Disposal

	See section 13 of this SDS for disposal instructions.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), hydrotreated light naphthenic	45 - 100	64742-53-6 265-156-6	01-2119480375-34	649-466-00-2	
Classification: Asp. Tox. 1;H304					
Distillates (petroleum), hydrotreated light paraffinic	0 - 50	64742-55-8 265-158-7	-	649-468-00-3	
Classification: -					
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified [complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C	0 - 5	64742-94-5 265-198-5	-	649-424-00-3	
Classification: Flam. Liq. 3;H226, Asp. Tox. 1;H304					
2,6-di-tert-butyl-p-cresol	< 0,5	128-37-0 204-881-4	01-2119565113-46	-	
Classification: Aquatic Chronic 1;H410					

Composition comments Not classified as a carcinogen. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

SECTION 4: First aid measures

General information Contact physician if discomfort continues.

4.1. Description of 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 centre immediately.

4.2. Most important symptoms and effects, both acute and delayed Defatting of the skin.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Halon. Dry chemicals. Foam. Carbon dioxide (CO2). 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.

5.2. Special hazards arising from the substance or mixture No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Special fire fighting procedures 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 pressurised air mask if product is involved in a fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Not available.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. 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.

6.3. Methods and material for containment and cleaning up 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 and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands after handling and before eating. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame.

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	MAK	10 mg/m3

Belgium. Exposure Limit Values

Material	Type	Value	Form
HyVolt III NG	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Belgium. Exposure Limit Values

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Vapour and aerosol.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Material	Type	Value
HyVolt III NG	TWA	5 mg/m3

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	50 mg/m3
	TWA	10 mg/m3
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	MAC	10 mg/m3

Czech Republic. OELs. Government Decree 361

Material	Type	Value
HyVolt III NG	Ceiling	1000 mg/m3
	TWA	200 mg/m3

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

Denmark. Exposure Limit Values

Material	Type	Value	Form
HyVolt III NG	TLV	1 mg/m3	Mist.

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TLV	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TLV	1 mg/m3	Mist.

Finland. Workplace Exposure Limits

Material	Type	Value	Form
HyVolt III NG	TWA	5 mg/m3	Mist.

Finland. Workplace Exposure Limits

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	20 mg/m3	
	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Mist.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	VME	10 mg/m3

Regulatory status: Indicative limit (VL)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	Vapor and aerosol, inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Respirable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Respirable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	AGW	10 mg/m3	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Material	Type	Value	Form
HyVolt III NG	TWA	5 mg/m3	Mist.

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Material	Type	Value	Form
HyVolt III NG	Ceiling	5 mg/m3	Mist.

Components	Type	Value
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Material	Type	Value	Form
HyVolt III NG	TWA	1 mg/m3	Mist.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	1 mg/m3	Mist.

Ireland. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt III NG	TWA	0,2 mg/m3	Inhalable fraction.

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.

Italy. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt III NG	TWA	5 mg/m3	Inhalable fraction.

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Material	Type	Value	Form
HyVolt III NG	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Netherlands. OELs (binding)

Material	Type	Value	Form
HyVolt III NG	TWA	5 mg/m3	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Material	Type	Value	Form
HyVolt III NG	TLV	1 mg/m3	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TLV	1 mg/m3	Mist.

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Material	Type	Value	Form
HyVolt III NG	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
		0 ppm	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
		0 ppm	Inhalable fraction.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Material	Type	Value	Form
HyVolt III NG	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
HyVolt III NG	STEL	10 mg/m3
	TWA	5 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3
	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3
	TWA	5 mg/m3

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.

Spain. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt III NG	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Material	Type	Value	Form
HyVolt III NG	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	40 mg/m3	Vapor and aerosol, inhalable.
	TWA	10 mg/m3	Vapor and aerosol, inhalable.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)			
Long-term, Local, Inhalation	1,19 mg/m3	75	Repeated dose toxicity
Long-term, Systemic, Oral	0,74 mg/kg	120	Repeated dose toxicity

Workers

Components	Value	Assessment factor	Notes
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)			
Long-term, Local, Inhalation	5,58 mg/m3	45	Repeated dose toxicity
Long-term, Systemic, Dermal	0,97 mg/kg	72	Repeated dose toxicity
Long-term, Systemic, Inhalation	2,73 mg/m3	45	Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)			
Secondary poisoning	9,33 mg/kg		Oral

Exposure guidelines

Austria MAK: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Belgium OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Croatia ELVs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Czech Republic PELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Estonia OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

EU. OELs from Annex III, Part A to Directive 2004/37/EC: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Iceland OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Lithuania OELs: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Slovakia OELs for Carcinogens and Mutagens: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.

8.2. Exposure controls

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

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Wear suitable protective equipment.
Eye/face protection	Goggles/face shield are recommended. Eye protection should meet standard EN 166.
Skin protection	
- Hand protection	Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable. Wear suitable gloves tested to EN374.
- Other	Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.

Respiratory protection	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN14387.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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 to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	Water White
Odour	Mild Petroleum Odor
Melting point/freezing point	-63 °C (-81,4 °F) ASTM D5950/ISO 3016
Boiling point or initial boiling point and boiling range	287 °C (548,6 °F) ASTM D2887/ ISO 3294
Flammability	Will burn if involved in a fire.
Flash point	Property has not been measured. Property has not been measured.
Auto-ignition temperature	>= 315 °C (>= 599 °F) ASTM E659
Decomposition temperature	Property has not been measured.
pH	Property has not been measured.
Kinematic viscosity	Property has not been measured.
Solubility	
Solubility (water)	Property has not been measured.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Property has not been measured.
Density and/or relative density	
Relative density	0,88 (20 °C (68 °F) ASTM D4052/ ISO 12185)
Vapour density	Property has not been measured.
Particle characteristics	
Particle size	Not applicable, material is a liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes	No relevant additional information available.

9.2.2. Other safety characteristics

Viscosity	9,4 cSt (40 °C (104 °F) ISO 3104)

SECTION 10: Stability and reactivity

10.1. Reactivity	Strong oxidising agents.
10.2. Chemical stability	Stable.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

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 Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.

11.1. Information on toxicological effects

Acute toxicity Not applicable.

Components	Species	Test Results
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 6000 mg/kg
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5000 mg/m³
Oral		
LD50	Rat	> 5000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg

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 sensitisation Not classified.

Skin sensitisation Not classified. May cause defatting of the skin, but is not an irritant.

Germ cell mutagenicity Chilean Spanish went out in Job 18-0024189, French and German were reviewed under 17-0023466 and Hindi under 17-0023485

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

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

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.

Mixture versus substance information Not available.

11.2. Information on other hazards

Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other information Risk of chemical pneumonia after aspiration.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
HyVolt III NG			
Aquatic			
Crustacea	EC50	Daphnia	180, 48 hours
Acute			
Crustacea	EC50	Daphnia	60, 48 hours estimated
Fish	LC50	Fish	24,875, 96 hours estimated

Components		Species	Test Results
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)			
Aquatic			
Acute			
Algae	EC10	Freshwater algae	0,24, 72 hours
Crustacea	EC50	Daphnia magna	0,48, 48 hours
Fish	LC50	Fish	0,199, 96 hours
Chronic			
Crustacea	NOEC	Daphnia magna	0,069, 21 days
Fish	NOEC	Fish	0,053, 30 days

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

12.2. Persistence and degradability Not inherently biodegradable.

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

Partition coefficient n-octanol/water (log Kow)

2,6-di-tert-butyl-p-cresol	5,1

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects Oil spills are generally hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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.

EU waste code Not applicable. Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information 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.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Maritime transport in bulk according to IMO instruments Not established.

General information Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

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.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
Germany: WGK 1

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
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)	Yes
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	Yes

*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).

SECTION 16: Other information

List of abbreviations
Not available.

References
ACGIH
IARC Monographs. Overall Evaluation of Carcinogenicity
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

Information on evaluation method leading to the classification of mixture
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

Revision information
SECTION 2: Hazards identification: Response
SECTION 2: Hazards identification: Prevention
SECTION 2: Hazards identification: Hazard statements
SECTION 2: Hazards identification: GHS Signal Words
SECTION 12: Ecological information: Partition coefficient n-octanol/water (log Kow)
GHS: Classification

Training information
Follow training instructions when handling this material.

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.