

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name or designation of the mixture HyVolt I
Registration number 01-2119480375-34
Synonyms HyVolt I BS 148
Issue date 16-August-2011
Version number 10
Revision date 08-March-2016
Supersedes date 07-January-2016

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 Refining, Inc.
2611 Haining Rd
Vicksburg, Mississippi 39181
EU Contact: sds@ergon.com
Drève Richelle 161 Building C
B-1410 Waterloo, Belgium

Emergency Phone Numbers:

Ergon Refining, Inc.: + 1.601.638.4960 Normal Business Hours
Chemtrec: + 1.800.424.9300 After Business Hours (North America)
+ 1.703.527.3887 (International)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Health hazards

Aspiration hazard Category 1 H304 - May be fatal if swallowed and enters airways.

Hazard summary

Physical hazards Not classified for physical hazards.
Health hazards Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards Not classified for hazards to the environment.
Specific hazards Harmful by inhalation. Do not breathe dust/fume/gas/mist/vapors/spray.
Main symptoms Respiratory disorder.

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

Contains: Distillates (petroleum), hydrotreated light naphthenic, DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC, DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC, DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC, Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based, LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED

Hazard pictograms

Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements**Prevention**

Do not breathe gas/mist/vapours/spray.

Response

P301 + P310
P331

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501

See section 13 of this SDS for disposal instructions.
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.

Supplemental label information

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Distillates (petroleum), hydrotreated light naphthenic	20 - 100	64742-53-6 265-156-6	01-2119480375-34	649-466-00-2	
Classification:					
DSD:	-				L
CLP:	Asp. Tox. 1;H304				

Distillates (petroleum), hydrotreated light paraffinic	0 - 40	64742-55-8 265-158-7	-	649-468-00-3	
Classification:					
DSD:	-				L
CLP:	-				L

Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based	0 - 40	72623-86-0 276-737-9	-	649-482-00-X	
Classification:					
DSD:	-				L
CLP:	-				L

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	0 - 20	72623-87-1 276-738-4	-	649-483-00-5	
Classification:					
DSD:	-				L
CLP:	-				L

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	0 - 10	64742-65-0 265-169-7	-	649-474-00-6	
Classification:					
DSD:	-				L
CLP:	-				L

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC	0 - 10	64741-96-4 265-097-6	01-2119483621-38	649-457-00-3	
Classification:					
DSD:	-				L
CLP:	-				L
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC	0 - 10	64741-89-5 265-091-3	-	649-455-00-2	
Classification:					
DSD:	-				L
CLP:	-				L

SECTION 4: First aid measures

General information Contact physician if discomfort continues. Keep victim under observation.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. 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. Discomfort in the chest. Coughing.

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. Flammability Class: Combustible IIIB

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 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.

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.

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. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/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)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values. Material

Material	Type	Value	Form
HyVolt I (CAS Mixture)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Belgium. Exposure Limit Values.

Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

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

Material	Type	Value	
HyVolt I (CAS Mixture)	TWA	5 mg/m ³	
Components	Type	Value	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m ³	
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m ³	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m ³	
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	5 mg/m ³	
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	5 mg/m ³	

Czech Republic. OELs. Government Decree 361

Material	Type	Value	
HyVolt I (CAS Mixture)	Ceiling	1000 mg/m ³	
	TWA	200 mg/m ³	
Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	1000 mg/m ³	
	TWA	200 mg/m ³	
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Ceiling	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	Ceiling	10 mg/m ³	
	TWA	5 mg/m ³	
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	Ceiling	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3

Material	Type	Value	Form
HyVolt I (CAS Mixture)	TLV	1 mg/m ³	Mist.

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3

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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TLV	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TLV	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TLV	1 mg/m3	Mist.

Finland. Workplace Exposure Limits

Material	Type	Value	Form
HyVolt I (CAS Mixture)	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), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m3	Mist.

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

Material	Type	Value	Form
HyVolt I (CAS Mixture)	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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	5 mg/m3	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Material	Type	Value	Form
HyVolt I (CAS Mixture) Components	Ceiling Type	5 mg/m3 Value	Mist. Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Ceiling	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	Ceiling	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	Ceiling	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	Ceiling	5 mg/m3	Mist.

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

Material	Type	Value	Form
HyVolt I (CAS Mixture) Components	TWA Type	1 mg/m3 Value	Mist. Form
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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	1 mg/m3	Mist.

Ireland. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt I (CAS Mixture) Components	TWA Type	0,2 mg/m3 Value	Inhalable fraction. Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	5 mg/m3	Inhalable fraction.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	5 mg/m3	Inhalable fraction.

Italy. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt I (CAS Mixture)	TWA	5 mg/m3	Inhalable fraction.
Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	5 mg/m3	Inhalable fraction.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	5 mg/m3	Inhalable fraction.

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

Material	Type	Value	Form
HyVolt I (CAS Mixture)	STEL	3 mg/m3	Fume and mist.
Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	3 mg/m3	Fume and mist.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	1 mg/m3	Fume and mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	3 mg/m3	Fume and mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	1 mg/m3	Fume and mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	3 mg/m3	Fume and mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	1 mg/m3	Fume and mist.

Netherlands. OELs (binding)

Material	Type	Value	Form
HyVolt I (CAS Mixture)	TWA	5 mg/m3	Mist.

Netherlands. OELs (binding)

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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TWA	5 mg/m3	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Material	Type	Value	Form
HyVolt I (CAS Mixture)	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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TLV	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	TLV	1 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	TLV	1 mg/m3	Mist.

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

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

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

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

Material	Type	Value	Form
HyVolt I (CAS Mixture)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

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

Material	Type	Value
HyVolt I (CAS Mixture)	STEL	10 mg/m3
	TWA	5 mg/m3
Components	Type	Value
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	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 paraffinic (CAS 64742-55-8)	STEL	10 mg/m3
	TWA	5 mg/m3
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	STEL	10 mg/m3
	TWA	5 mg/m3
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m3
	TWA	5 mg/m3
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	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), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	3 mg/m3	Fume and mist.
	TWA	15 ppm 1 mg/m3 5 ppm	Fume and mist. Fume and mist. Fume and mist.

Spain. Occupational Exposure Limits

Material	Type	Value	Form
HyVolt I (CAS Mixture)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Components	Type	Value	Form
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.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)	STEL	10 mg/m3	Mist.

Spain. Occupational Exposure Limits Components**Type****Value****Form**

TWA

5 mg/m3

Mist.

Sweden. Occupational Exposure Limit Values Material**Type****Value****Form**

HyVolt I (CAS Mixture)

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.

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

TWA

1 mg/m3

Mist.

STEL

3 mg/m3

Mist.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)

TWA

1 mg/m3

Mist.

STEL

3 mg/m3

Mist.

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)

TWA

1 mg/m3

Mist.

STEL

3 mg/m3

Mist.

DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC (CAS 64741-89-5)

TWA

1 mg/m3

Mist.

STEL

3 mg/m3

Mist.

TWA

1 mg/m3

Mist.

Biological limit values

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

Recommended monitoring procedures

Not available.

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

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**

Wear suitable 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. 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.

- 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	Not available.
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	Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear & bright
Physical state	Liquid.
Form	Liquid.
Colour	Water White to Pale
Odour	Mild Petroleum Odor
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 237,78 °C (> 460 °F) ISO 3294/ ASTM D 2887
Flash point	> 135,0 °C (> 275,0 °F) Pensky-Martens Closed Cup ISO 2719/ ASTM D 93 > 146,1 °C (> 295,0 °F) Cleveland open cup ISO 2592/ ASTM D 92
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.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0,88 (20 °C (68 °F) ISO 12185/ ASTM D 4052)
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not established.
Auto-ignition temperature	> 315 °C (> 599 °F) ASTM E 659
Decomposition temperature	Not available.
Viscosity	10 cSt (40 °C (104 °F) ISO 3104)
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

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	Not available.
Information on likely routes of exposure	
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.

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.
Symptoms	Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.
11.1. Information on toxicological effects	
Acute toxicity	Not applicable.
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	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. Nota L - Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.
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.
Other information	Risk of chemical pneumonia after aspiration.

SECTION 12: Ecological information

12.1. Toxicity	Not expected to be harmful to aquatic organisms.
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)	Not established.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not applicable.
12.6. 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.

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

General	Not regulated as dangerous goods.
ADR	Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

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

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

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 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

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

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other 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.

National regulations
15.2. Chemical safety assessment

Germany: WGK 1
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

International Inventories

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

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 Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.

Revision information Product and Company Identification: Product and Company Identification
Physical & Chemical Properties: Multiple Properties

Training information Not available.

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.