

# Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 31/03/2017 Revision date: 31/03/2017 Version: 1.0

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

1.1. Product identifier

Product form : Mixtures

Product name : ENOC CRYOGEN N 46

Product code : 244002 Other means of identification : Base oil

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Refrigeration compressor Oil

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

**ENOC Marketing L.L.C** 

**ENOC House I** 

**Dubai - United Arab Emirates** 

T+971 4 313 4613 - F+971 4 313 4616

#### 1.4. Emergency telephone number

Emergency number : +97143374400

(business hours)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

# Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS-No.) 64742-52-5 (EC-No.) 265-155-0 (EC Index-No.) 649-465-00-7 (REACH-no) 01-2119467170-45	68	Not classified
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS-No.) 64742-52-5 (EC-No.) 265-155-0 (EC Index-No.) 649-465-00-7 (REACH-no.) 01-2119467170-45	32	Not classified

Full text of H-statements: see section 16

31/03/2017 EN (English) 1/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

0-0-					
SECTI	ON 4:	First	aic	measi	ires

#### 4.1. Description of first aid measures

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

: Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of First-aid measures after skin contact

water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately First-aid measures after ingestion

get medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.

Symptoms/effects after skin contact

Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue

damage. May cause skin irritation / dermatitis.

Symptoms/effects after eye contact

May cause eye irritation.

Symptoms/effects after ingestion Depression of the central nervous system, headaches, dizziness, drowsiness, loss of

coordination.

#### Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media : carbon dioxide (CO2), water, dry chemical powder.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

#### Special hazards arising from the substance or mixture

Fire hazard

: Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Explosion hazard

Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

Hazardous decomposition products in case of

fire

: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Hydrogen sulfide. Sulfur oxides.

#### 5.3. Advice for firefighters

Firefighting instructions

: Cool down the containers exposed to heat with a water spray.

Protective equipment for firefighters

: Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment

: Wear personal protection equipment.

**Emergency procedures** 

: Evacuate area. Avoid contact with skin, eyes and clothes.

#### 6.1.2. For emergency responders

Protective equipment

: Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.

**Emergency procedures** 

: Evacuate and limit access. Stop leak if safe to do so. Use ventilation/water spray/fog to

disperse vapours. Do not touch spilled material.

#### **Environmental precautions**

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment and cleaning up

For containment

: Clean up any spills as soon as possible, using an absorbent material to collect it. For larger spills, dike area and pump into waste containers. . In case of small spillages in closed waters, contain product with floating barriers or other equipment.

Methods for cleaning up

: Collect all waste in suitable and labelled containers and dispose according to local legislation.

#### Reference to other sections

No additional information available

#### SECTION 7: Handling and storage

#### Precautions for safe handling

Additional hazards when processed

: Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Avoid static electricity discharges. Provide earthing of containers, equipment, pumps and ventilation facilities.

31/03/2017 EN (English) 2/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice. Take off contaminated

clothes. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Incompatible products : Keep away from : Strong oxidizing agents.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Special rules on packaging : Keep only in original container. Do not pressurize, cut, weld, braze, solder, drill, grind, or

expose containers to flames, sparks, heat, or other potential ignition sources.

Packaging materials : Stainless steel. Mild steel. Some synthetic materials may be unsuitable for containing materials.

Stainless steel. Mild steel. Some synthetic materials may be unsuitable for container lining depending on the material specification and intended use. Compatibility should be checked with

the manufacturer.

#### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)		
EU	IOELV TWA (mg/m³)	5 mg/m³
Belgium	Limit value (mg/m³)	5 mg/m³
Belgium	Short time value (mg/m³)	10 mg/m³
Bulgaria	OEL TWA (mg/m³)	5 mg/m³
Czech Republic	Expoziční limity (PEL) (mg/m³)	5 mg/m³
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	10 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m³)	5 mg/m³
Hungary	MK-érték	5 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	5 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m³)	1 mg/m³
Lithuania	TPRV (mg/m³)	3 mg/m³
Netherlands	Grenswaarde TGG 8H (mg/m³)	5 mg/m³
Poland	NDS (mg/m³)	5
Portugal	OEL TWA (mg/m³)	5 mg/m³
Portugal	OEL STEL (mg/m³)	10 mg/m³
Romania	OEL TWA (mg/m³)	5
Romania	OEL STEL (mg/m³)	10 mg/m³
Slovakia	NPHV (priemerná) (mg/m³)	1 mg/m³
Slovakia	NPHV (priemerná) (ppm)	5 ppm
Slovakia	OEL STEL (mg/m³)	3 mg/m³
Slovakia	OEL STEL (ppm)	15 ppm
Spain	VLA-ED (mg/m³)	5
Spain	VLA-EC (mg/m³)	10 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	1 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (mg/m³)	3 mg/m³
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m <sup>3</sup>

ENOC CRYOGEN N 46	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	5.4 mg/m³

### 8.2. Exposure controls

### Appropriate engineering controls:

Either local exhaust or general room ventilation is usually required.

#### Personal protective equipment:

Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

31/03/2017 EN (English) 3/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

#### Materials for protective clothing:

Wear suitable protective clothing. Natural fibres (e.g. cotton)

#### Hand protection:

Wear suitable gloves tested to EN374. Thickness of glove material: > 0.13 mm. Break through time: ≥ 480 min. Protective gloves made of PVC. For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils

#### Eye protection:

Use splash goggles when eye contact due to splashing is possible. DIN EN 166

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better.







#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Brown.

Odour : Characteristics.

Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : -30 °C

Freezing point : No data available

Flammability (solid, gas) : No data available Vapour pressure : 160 Pa @100°C Relative vapour density at 20 °C : No data available Relative density : No data available : 0.9068 g/ml @ 15°C Density Solubility : Water: Insoluble in water : No data available Log Pow Viscosity, kinematic : 46 mm<sup>2</sup>/s @ 40°C

Explosive properties : Not explosive. However, formation of explosive air/vapour mixtures are possible.

: No data available

Oxidising properties : Not oxidizing.

Explosive limits : No data available

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Viscosity, dynamic

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None known under normal conditions of use. No polymerization.

#### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

31/03/2017 EN (English) 4/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

#### Incompatible materials 10.5.

Strong oxidizing agents.

#### **Hazardous decomposition products**

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Sulfur oxides. Hydrogen sulphide (H2S).

### **SECTION 11: Toxicological information**

### Information on toxicological effects

Acute toxicity : Not classified

• • • • • • •	
Distillates, petroleum, hydrotreated heavy	y naphthenic (64742-52-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5.53 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
ENOC CRYOGEN N 46	

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Viscosity, kinematic

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	
LC50 fish 1	> 100 mg/l

46 mm²/s @ 40°C

# Persistence and degradability

ENOC CRYOGEN N 46			
Persistence and degradability	Not readily biodegradable. Inherently biodegradable.		
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)			
Persistence and degradability  Not readily biodegradable. Inherently biodegradable.			
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)			
Persistence and degradability Not readily biodegradable. Inherently biodegradable.			
12.3. Bioaccumulative potential			
ENOC CRYOGEN N 46			
Bioaccumulative potential	Bioaccumulative potential.		
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)			

#### Bioaccumulative potential Bioaccumulative potential.

# Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

Bioaccumulative potential Bioaccumulative potential.

#### 12.4. **Mobility in soil**

No additional information available

#### Results of PBT and vPvB assessment 12.5.

ENOC CRYOGEN N 46			
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This substance/mixture does not meet the vPvB	criteria of REACH regulation, annex XIII		
Component			
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

31/03/2017 EN (English) 5/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

#### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding

versions, covering waste and dangerous waste.

Product/Packaging disposal recommendations : Dispose of this material and its container to hazardous or special waste collection point.

Recycle product or dispose safely. Refer to manufacturer/supplier for information on

recovery/recycling.

European List of Waste (LoW) code : 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils

#### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	ng name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

# - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

31/03/2017 EN (English) 6/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

Other information, restriction and prohibition regulations

: International regulatory information:

AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 7 February 2017)

CAS RN: 64742-52-5, Name: Distillates, petroleum, hydrotreated heavy naphthenic Notes aU This entry is a chemical of unknown or variable composition, a complex product of a chemical reaction, or a biological material (UVCB); the Australian inventory denotes this by putting an asterisk (\*) after the CAS number.

DSL: Canada. Domestic Substances List (DSL), as amended through 22 February 2017 CAS RN: 64742-52-5, Name: Distillates, petroleum, hydrotreated heavy naphthenic Canada. Ontario Inventory (incomplete), based on TSCA Initial Inventory (1979), Appendix A, Chemical Substance Identities, and TSCA Inventory Supplement 1 (1980)

CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic Molecular formula: Unspecified

Substance definition: A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains relatively few normal paraffins.

ENCS: Japan. Inventory of Existing & New Chemical Substances (ENCS), as amended through July 29, 2016

CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic (en-US) Japanese ENCS Number: (9)-1703

Japan. Industrial Safety& Health Law (ISHL) Inventory(as amended through December 27, 2016)

CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic (en-US) Japanese ENCS Number: (9)-1703

Japanese ISHL Number: (9)-1703

Notes iencs Grandfathered onto ISHL from ENCS according to the Chemical Substance Control Law ('Kashinho').

KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2016-138, July 13, 2016)

CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic Korean ID Number: KE-12543

PICCS: Philippines. Inventory of Chemicals and Chemical Substances (PICCS) 2014 CAS RN: 64742-52-5, Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC

TSCA: TSCA IUR 2006, Partially Exempt Petroleum Process Streams (40 CFR 710.46(b)(1)) CAS RN: 64742-52-5, Name: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC

CAS RN: 64742-52-5 may be regulated as a member of the Generics group for CAS RN: 8012-95-1

Generics group name: PARAFFIN OILS

TSCA CDR, Partially Exempt Petroleum Process Streams (40 CFR 711.6(b)(1)) (September 6, 2011)

CAS RN: 64742-52-5, Name: Distillates (petroleum), hydrotreated heavy naphthenic

CAS RN: 64742-52-5 may be regulated as a member of the Generics group for CAS RN: 8012-95-1

Generics group name: Paraffin oils

TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06) CAS RN: 64742-52-5, Name: DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC

1990 HPV Challenge Program Chemical HPV Indicator Value (see notes): 0 HPV Sponsorship Value (see notes): F

Notes: 0 Chemical is a candidate for sponsorship under the HPV Challenge Program, F Fully Sponsored Chemical.

#### 15.1.2. National regulations

#### Germany

VwVwS Annex reference

: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen

Distillates, petroleum, hydrotreated heavy naphthenic, Distillates, petroleum, hydrotreated heavy naphthenic are listed

SZW-lijst van mutagene stoffen

: Distillates, petroleum, hydrotreated heavy naphthenic, Distillates, petroleum, hydrotreated heavy naphthenic are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

31/03/2017 EN (English) 7/8

# Safety Data Sheet

according to Regulation (EU) 2015/830

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

# **SECTION 16: Other information**

#### Abbreviations and acronyms:

SDS	Safety Data Sheet
	CAS - Chemical Abstracts Service
	GHS - Globally Harmonised System
	CSR - Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	PVC (Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

#### Other information

: It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. Such information is actually to be best of our knowledge and believes accurate as reliable.

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

31/03/2017 EN (English) 8/8