

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

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

1.1 Product identification

Trade name : V-STREAM HYDRAULIC FLUID H46
Product code : 35322

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

Application of the substance / mixture

1.3 Details of the supplier of the safety data sheet

VROOAM Powersports Lubricants INT. BV Aventurijn 300 3316 LB
Dordrecht (NL) 0031 (0) 78
750 1632 www.vrooam-
lubricants.com info@vrooam-
lubricants.com

• Further information available from: Product Safety Department

1.4. Emergency telephone number +31 (0) 78 750 16 32 (09:00 to 17:00 from Monday to Friday)

SECTION 2: Hazards identification

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

Not classified

Adverse physicochemical, health and environmental effects

As far as is known, this product does not present any specific hazard provided normal industrial hygiene rules are observed.

2.2 Label elements

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

EUH sentences : EUH210 - Safety data sheet available on request.

2.3. Other hazards

Contains no PBT and/or vPvB substances > 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain any substance included in the list established pursuant to Article 59(1) of REACH for having endocrine disrupting properties, or one or more substances identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration greater than or equal to 0.1%.

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description: Highly refined mineral oils and additives.

Dangerous parts		
CAS-No.: 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (Note L) Asp. Tox. 1, H304	20-<50%
EC-No.: 265-157-1		
EC Index No.: 649-467-00-8		
REACH-no: 01-2119484627-25		

Comments

This highly refined oil contains <3% (w/w) DMSO extract, determined according to IP346.

Note L:

The harmonised classification of the substance as carcinogenic applies unless it can be shown that it contains less than 3 % dimethyl sulphoxide extract as measured according to IP 346 ('Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London), in which case the substance shall also be classified for that hazard class in accordance with Title II of this Regulation.

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid general: If you feel unwell, seek medical advice.

First aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : As a precaution, rinse eyes with water.

First-aid measures after ingestion : Call a poison control center or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

bridles/effects after inhalation : Although no possible effects on human or animal health are known, this product is considered to pose an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Indication of any immediate medical attention and special treatment required

Symptomatic treatment.

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

SECTION 5: Firefighting measures

5.1 Fire extinguishing agents

Suitable extinguishing agents : Water mist

Fire extinguishing powder

Carbon dioxide

Alcohol resistant foam

For safety reasons unsuitable extinguishing media: Water with full jet

5.2 Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No immediate explosion hazard.

Hazardous decomposition products in case of fire : Possible formation of toxic fumes.

5.3 Advice for firefighters

Fire instructions : Fight fire from a safe distance and sheltered area. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not take action without suitable protective equipment. Self-contained breathing apparatus. Full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb leak/spillage to prevent material damage.

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb leak/spillage to prevent material damage.

For persons other than the emergency services

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate contaminated area.

For the emergency services

Protective equipment : Do not intervene without suitable protective equipment. For further information see section 8: "Exposure controls/personal protection".

Emergency procedures : Remove unnecessary personnel. Seal the leak if it can be done safely.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For inclusion : Absorb spills with sand or earth. Contain spills with dikes or absorbents to prevent spread and entry into drains or rivers. If possible, stop leak without risk.

Cleaning methods : Absorb spilled liquid with absorbent material.

Other information : Take waste or solid residues to an approved waste disposal facility.

6.4 Reference to other sections

For further information, see section 13.

SAFETY DATA SHEET

PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878



SECTION 7: Handling and storage

7.1 Precautions for safe use

Additional hazards when processed; Not expected to present a significant hazard under anticipated conditions of normal use.

Ensure good ventilation in the processing area to avoid the formation of vapours.

Hygiene measures; Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures; Store in a cool, well-ventilated area, away from heat.

Storage conditions; Keep container closed when not in use. Store in a cool, well-ventilated area, away from heat.

Storage temperature; 0 – 40 °C

Packaging material; Always store the product in packaging made of the same material as the original packaging.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information on the design of technical facilities: No further data; see point 7.

8.1. Control parameters

Ingredients with limit values that must be monitored at the workplace:

Hydraulic H 46

Exposure limits/standards that can be set when handling this product. When mists or fogs can occur, the following is recommended

5 mg/m³ - ACGIH TLV (inhalable fraction).

8.2 Exposure control measures

Appropriate technical measures:

Ensure good ventilation of the workplace.

Personal protective equipment:

Wear recommended personal protective equipment.

Symbol(s) for personal protective equipment:



SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

Eye and face protection

Safety glasses

Type	Scope of application	Features	Standard
Safety glasses	Droplets	bright	EN 166

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear gloves for protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Select glove material taking into account penetration times, diffusion rates and degradation.

Respiratory protection:

In case of insufficient ventilation, use suitable respiratory equipment.

Thermal hazards

No additional information available

Control of environmental exposure

Control of environmental exposure:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical condition	: Liquid
Colour	: Yellow.
Smell	: characteristic.
Odor threshold	: Not available
Melting point	: Not applicable
Freezing point	: -39 °C - ASTM D5950 (pour point)
Boiling point	: Not available
Flammability	: Not applicable
Explosive properties	: Presents no specific fire or explosion hazard.
Lowest Explosive Limit Value	: Not available
Upper explosion limit value	: Not available
Flashpoint	: 200 °C - ASTM D92 (COC)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 46 mm ² /s (40 °C) - ASTM D7042
Solubility	: Water: Insoluble / Poorly miscible
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapor pressure	: Not available

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

Vapor pressure at 50°C	: Not available
Density	: 0.858 kg/l (15 °C) - ASTM D4052
Relative density	: Not available.
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2 Other information

Information on physical hazard classes
No additional information available

Other safety features
VOC content: 0%

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizing agents.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition under normal storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.53 mg/l/4h

SAFETY DATA SHEET

PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878



Skin corrosion/irritation	: Not classified
Serious eye damage/eye irritation	: Not classified
Respiratory/skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT single exposure	: Not classified
STOT - repeated exposure	: Not classified
Danger of inhalation	: Not classified

Hydraulic H 46	
Viscosity, kinematic	46 mm ² /s (40 °C) - ASTM D7042
distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Viscosity, kinematic	< 20.5 mm ² /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms and has no long-term negative impact on the environment.

Hazardous to the aquatic environment, (acute) short term : Not classified

Hazardous to the aquatic environment, (chronic) long-term : Not classified

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fishing [1]	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)
EC50 - Crustaceans [1]	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)
EC50 72h - Algae [1]	> 100 mg/l
NOEC (acute)	ÿ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)
NOEC chronic crustaceans	10 mg/l (Daphnia magna, 21d) (OECD 211 method)

12.2. Persistence and degradability

Hydraulic H 46	
Persistence and degradability	Not readily biodegradable
distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not readily biodegradable
Biodegradation	31 % (28d) (OECD 301F method)

SAFETY DATA SHEET

PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878



12.3. Bioaccumulation

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste legislation Waste treatment methods

: Waste disposal in accordance with legal provisions.

: Dispose of contents/packaging in accordance with the sorting instructions of an approved collection company.

Wastewater disposal recommendations Product/

: Waste disposal in accordance with legal provisions.

Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information

: Do not reuse empty containers. : 13 01 10* -

European Waste List (LoW, EC 2000/532)

non-chlorinated mineral hydraulic oil

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous according to transport regulations

14.2. Proper shipping name according to the UN model regulations

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not regulated

14.6. Special precautions for user

Road transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Transport by inland waterway

Not regulated

Rail transport

Not regulated

14.7. Sea transport in bulk according to IMO instruments

Not applicable

SAFETY DATA SHEET

PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878



SECTION 15: Regulations

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

15.1.1. EU regulations

REACH list of restrictions (Annex XVII)		
Reference code	Applicable to	Mention or description
3(b)	distillates (petroleum), with Hydrotreated heavy paraffinic	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to EC Regulation 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

REACH Annex XIV (list of substances subject to authorisation)

Does not contain any substance(s) included in REACH Annex XIV (list of substances subject to authorisation)

REACH Candidate List (SVHC)

Does not contain any substance(s) included in the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substances included in the PIC list (Regulation EU 649/2012 on the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Does not contain substances included in the POP list (Regulation EU 2019/1021 on organic pollutants)

Ozone Regulation (1005/2009)

Does not contain substances included in the list of ozone depleting substances (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Does not contain a substance covered by COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 establishing a Community regime for the control of export, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content: 0 %

Explosives Precursors Regulation (2019/1148)

Does not contain substances included in the list of explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Regulation on precursors for medicinal products (273/2004)

Does not contain substances included in the list of precursors for medicines (Regulation EC 273/2004 on the production and placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

ABM category

:A(4) - Slightly harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SZW list of carcinogenic substances: None of the ingredients are present

SZW list of mutagenic substances: None of the components are present

SZW list of reprotoxic substances – Breastfeeding: None of the ingredients are present

SZW list of reprotoxic substances – Fertility: None of the ingredients are present

SZW list of reprotoxic substances – Development: None of the components are present

SAFETY DATA SHEET

PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878



SECTION 16: Other information

Notification of changes		
Section	Modified item	Change
	Replaces	Altered
	Date of revision	Altered
	Product type	Added
1.2	Function or category of use	Deleted
3	Composition and information on ingredients Changed	
4.1	First aid general	Added
4.2	Symptoms/effects after ingestion	Added
4.2	Symptoms/effects after eye contact	Added
4.2	Symptoms/effects after skin contact	Added
4.2	Symptoms/effects after inhalation	Added
5.2	Explosion hazard	Added
5.2	Hazardous decomposition products in case of fire Modified	
5.2	Fire hazard	Altered
5.3	Fire instructions	Added
6.1	Emergency procedures	Added
6.1	Protective equipment	Added
6.1	General measures	Added
6.3	For inclusion	Added
7.1	Additional hazards during processing	Added
7.2	Packaging material	Added
7.2	Technical measures	Added
8.2	Personal protective equipment	Added
13.1	Wastewater Disposal Recommendations	Added
13.1	Additional information	Added
13.1	Regional waste legislation	Added

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical Oxygen Demand (COD)

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM HYDRAULIC FLUID H46

According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

Abbreviations and acronyms:	
D MEL	Derived Minimal Effect Level
D NEL	Derived No-Effect Level
EC No.	European Commission Number
EC50	Median effective concentration
AND	European standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Concentration causing death in 50% of a test population
LD50	Dose that causes death in 50% of a test population (median lethal dose)
LOAEL	Lowest dose or concentration at which an adverse effect was observed
NOAEC	Concentration at which no adverse effect was observed
NOAEL	Level or concentration at which no adverse effect was observed
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development, OECD
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Predicted No Effect Concentration(s)
RID	Regulations concerning the international carriage of dangerous goods by rail
VIB	Safety data sheet
STP	Water Purification Plant
ThZV	Theoretical oxygen demand (TZV)
TLM	Median Tolerance Limit
VOC	Volatile organic compounds
CAS No.	Chemical Abstract Service - Number
NEG	Not Elsewhere Specified
vPvB	Very persistent and very bioaccumulative, vPvB
ED	Endocrine disrupting properties

Full text of sentences H and EUH:	
Asp. Tox. 1	Aspiration Hazard, Category 1
EUH210	Safety data sheet available on request.
H304	May be fatal if swallowed and enters airways.