

SAFETY DATA SHEET



PRODUCT NAME: V-STREAM COOLANT YELLOW HEAVY-DUTY READY-TO-USE -38°C.

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Productidentificatie

Productname: V-STREAM COOLANT YELLOW HEAVY-DUTY READY-TO-USE -38°C.
Product code: 35701

1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Application SU22 Professional use. For industrial or institutional use. PC0 Other. Car maintenance. PC4 Coolant.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

0031 (0) 78 750 16 32 (9 AM to 5 PM, Monday to Friday)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EG) : Acute toxicity, category 4. Specific target organ toxicity - repeated exposure, category 2.
Human health hazards : Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.
Environmental hazards : Not classified as dangerous according to statutory EC-Directives

2.2. Label elements

Label elements (1272/2008/EC)
Hazard pictograms



Signal word	Warning	
H- and P-phrases	H302 H373 kidneys P260 vapour P314 P501	Harmful if swallowed. May cause damage to kidneys through prolonged or repeated exposure. Do not breathe vapours. Get medical advice/attention if you feel unwell. Dispose of contents/container to an official chemical waste depot.

Additional labelling
(for all packaging sizes)

Contains Ethanediol

2.3 Other hazards

Other information Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product description Mixture.

Information on hazardous substances

Substance name	Concentration (w/w) (%)	CAS nr.	EG number	Remark	REACH nr.
Sodium 2-ethylhexanoate	1 - < 3	19766-89-3	243-283-8		
Ethaandiol	25 - < 50	107-21-1	203-473-3		01-2119456816-28

Substance name	Hazard Class	H-phrases	Pictogram
Sodium 2-ethylhexanoate	Repr. 2	H361d	GHS08
Ethaandiol	Acute Tox. 4; STOT RE 2	H302; H373	GHS07; GHS08

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1 Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor immediately if victim feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.
- Skin contact : May cause dry skin.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause a feeling of sickness, malaise, shortness of breath and lack of breath.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians

- General : Risk of metabolic acidosis.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.
- Not suitable : None known.

5.2 Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

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5.3 Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills contain with dike.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4 Reference to other sections

Reference to other sections See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Do not breathe vapour. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Keep away from food, drink and animal feedingstuffs.

Recommended packaging : Keep only in the original container.

Non recommended packaging : Steel (except stainless steel).

7.4 Specific end use(s)

Use : Use only as directed.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Controleparameters

Occupational exposure limits

Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Ethanediol	GB	52	104	Skin	
Ethanediol	EC	52	104	Skin	

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium 2-ethylhexanoate	Dermal Inhalation				2 mg/kg bw/day 14 mg/m ³
Ethanediol	Dermal Inhalation			35 mg/m ³	106 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium 2-ethylhexanoate	Dermal Inhalation Oral				1 mg/kg bw/day 3,5 mg/m ³
Ethanediol	Dermal Inhalation			7 mg/m ³	1 mg/kg bw/day 53 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Sodium 2-ethylhexanoate	Water	0,36 mg/l	0,036 mg/l	
	Sediment	0,301 mg/kg	0,0301 mg/kg	
	Intermittent water			0,493 mg/l
	STP			71,7 mg/l
Ethanediol	Soil			0,0579 mg/kg
	Water	10 mg/l	1 mg/l	
	Sediment	20,9 mg/kg		
	Intermittent water			10 mg/l
	STP			199,5 mg/l
	Soil			1,53 mg/kg

8.2 Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Hygienic measures : When using do not eat, drink or smoke.

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Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large-scale exposure. Suitable gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Under normal conditions of use specific gloves are not required. Wear suitable gloves in case of frequent or prolonged use and in case of large-scale exposure in accordance with EN 374. Suitable material laminated film. $\pm 0,5$ mm. Indication of permeation breakthrough time 6 hours.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.	
Colour	Yellow.	
Odour	Characteristic.	
Odour threshold	Not known.	
pH	8,6	
Solubility in water	Soluble.	
Partition coefficient (n-octanol/water)	Not known.	
Flash point	> 100 °C	Closed cup.
Flammability (solid, gas)	Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	> 398 °C	
Boiling point/boiling range	100 °C	
Melting point/melting range	-38 °C	
Explosive properties	None known.	Does not contain explosives.
Explosion limits (% in air)	Not known.	Lower explosion limit in air (%) 3,2 (Ethanediol) Upper explosion limit in air (%) 15,3 (Ethanediol)
Oxidising properties	Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	Not applicable.	
Viscosity (20°C)	1 mm ² /sec	(1 mm ² /sec = 1cSt)
Viscosity (40°C)	Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	2300 Pa	
Vapour density (20°C)	> 1	(air = 1)
Relative density (20°C)	1,1 g/ml	
Evaporation rate	< 1	(n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2 Chemical stability

Stability : Stable under normal conditions.

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10.3 Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4 Conditions to avoid

Conditions to avoid : See section 7.

10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity Calculated LC50 > 5,055 mg/l. Ingredients of unknown toxicity 3 %. ATE > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.

Corrosion/irritation Not classified - based on available data, the classification criteria are not met.

Sensitisation Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.

Mutagenicity Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity Calculated LD50 > 5000 mg/kg.bw. Ingredients of unknown toxicity < 1 %. ATE > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation Prolonged contact may dry out and defat the skin. Not classified - based on available data, the classification criteria are not met.

Sensitisation Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.

Mutagenicity Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Ingestion

Acute toxicity May cause signs of intoxication and reduced consciousness after exposure to high concentrations. May cause a feeling of sickness, malaise, shortness of breath and lack of breathe. Calculated LD50 > 5000 mg/kg.bw. Ingredients of unknown toxicity < 1 %. ATE 500 mg/kg.bw.

Aspiration Not classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.

Chronic toxicity Possibility of organ or organ system damage due to prolonged exposure. Target organ(s) Kidneys. Effect May cause nephrolithiasis.

Corrosion/irritation May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.

Mutagenicity Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

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Reprotoxicity Development Not classified - Based on available data, the classification criteria are not met. Fertility not expected to be reprotoxic. Fertility Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Ethanediol	NOAEL (development, oral)	250 mg/kg bw/d		Rat
	LD50 (dermal)	10600 mg/kg bw		
	Mutagenicity	Not mutagenic		
	Genotoxicity - in vitro	Not genotoxic		
	Skin irritation	Non-irritant		Rabbit
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOEL (inhalation)	71 mg/m3		
	LD50 (oral)	7712 mg/kg bw	-----	Rat
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral) - estimate	500 mg/kg bw		
	LC50 (inhalation)	> 2500 mg/m3	-----	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3		
	NOAEL (oral)	150 mg/kg bw/d	OECD 452	Rat
	NOEL (carcinogenicity, oral)	1000 mg/kg bw/d		Rat

Other information : Ethanediol There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 millilitres (1/2 cup).

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish) 4555 mg/l. Calculated EC50 (waterflea) 201 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Persistence - degradability No specific information known.

12.3 Bioaccumulative potential

Bioaccumulative potential No specific information known.

12.4 Mobility in soil

Mobility If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB ass

PBT/vPvB assessment Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6 Other adverse effects

Other information Not applicable.

VOC-content (EC) 545 g/l

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SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose into the environment, in drains or in water courses. Avoid discharge of waste water arising from tank cleaning to the environment.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

UN nr. None.

14.2 UN proper shipping name

Transport name Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6 Special precautions for user

Other information Country specific variations may apply.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

15.2 Chemical safety assessment

Chemical safety assessment : Not applicable

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SECTION 16 OTHER INFORMATION

14.1 Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification, Labeling & Packaging
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
EEC	European Economic Community
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC code	International Bulk Chemical Code
IMDG	International Maritime Dangerous Goods Code
LD50/LC50	Lethal Dose/Concentration for 50% of a population
MAC	Maximum Allowable Concentration
MARPOL	International Convention for the Prevention of Pollution From Ships
NO(A)EL	No Observed (Adverse) Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category
PT	Product type
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage Treatment Plant
SU	Sector of Use
TWA/STEL	Time-Weighted Average/Short Term Exposure Limit
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 Acute Tox. 4 Calculation method.
STOT RE 2 Calculation method.

Full text of hazard classes mentioned in section 3 Acute Tox. 4 Acute toxicity, category 4.
STOT RE 2 Specific target organ toxicity – repeated exposure, category 2.

Full text of H-phrases mentioned in section 3
H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
Number format ", " used as decimal separator

End of safety data sheet.