

SAFETY DATA SHEET

Revision date: 26/01/2011

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

1.1 Product identifier:

ORION L999S

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

aerosol

Concentration in use: 100 %

1.3 Details of the supplier of the safety data sheet:

ORION INDUSTRIES BVBA

Groenveldstraat 13

3001 Heverlee

Tel:016.52.08.98 - Fax:016.49.02.10

E-mail:orion@orioncoltd.com - Website:www.orioncoltd.com

Distributor:

1.4 Emergency telephone number:

Local: 070.245.245

Worldwide: XX32.70.245.245

2 Hazards identification:

2.1 Classification of the substance or mixture:

Extremely flammable Irritant Dangerous to the environment

R12 R38 R50/53 R67

2.2 Label elements:

Symbols:



Extremely flammable



Irritant



Dangerous to the environment

R-Phrases

R12	Extremely flammable.
R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness

Safety phrases

S2	Keep out of reach of children.
S3	Keep in a cool place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe spray.
S29	Do not empty into drains.

S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well ventilated areas.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Contains:

/

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding + 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material. Do not smoke.

2.3 Other hazards:

none

3 Composition/information on ingredients:

Heptane	25 - 50 %	CAS N° EINECS Registration no. CLP Classification pictogram Symbol R-Phrases	142-82-5 205-563-8 Flam. Liq. 2 H225 - Asp. Tox. 1 H304 - Skin Irrit. 2 H315 - STOT SE 3 H336 - Aquatic Acute 1 H400 - Aquatic Chronic 1 H410 GHS02 - GHS08 - GHS07 - GHS09 F, Xn, N 11 - 38 - 50/53 - 65 - 67
Butane n- (<0,01% Butadiene -1,3)	25 - 50 %	CAS N° EINECS Registration no. CLP Classification pictogram Symbol R-Phrases	106-97-8 203-448-7 Flam. Gas 1 H220 GHS02 - GHS04 F+ 12
Ethanol	25 - 50 %	CAS N° EINECS Registration no. CLP Classification pictogram Symbol R-Phrases	64-17-5 200-578-6 Flam. Liq. 2 H225 GHS02 F 11
Propane	10 - 25 %	CAS N° EINECS Registration no. CLP Classification pictogram Symbol R-Phrases	74-98-6 200-827-9 Flam. Gas 1 H220 GHS02 - GHS04 F+ 12
Naphta light (low boiling point hydrogen treated)	10 - 25 %	CAS N° EINECS Registration no. CLP Classification pictogram Symbol R-Phrases	64742-49-0 265-151-9 Xn, N, F 11 - 38 - 65 - 67 - 51/53

Acetone	10 - 25 %	CAS N°	67-64-1
		EINECS	200-662-2
		Registration no.	
		CLP Classification	Flam. Liq. 2 H225 - Eye Irrit. 2 H319 - STOT SE 3 H336 - EUH066
		pictogram	GHS02 - GHS07
		Symbol	F, Xi
		R-Phrases	11 - 36 - 66 - 67

For the full text of the H & R phrases mentioned in this section, see section 16.

4 First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur

Skin contact : none

Eye contact : rinse first with plenty of water and seek medical attention

Ingestion : rinse mouth with water and and seek medical attention

Inhalation : in case of serious or continuous discomforts: remove to fresh air and seek medical attention

4.2 Most important symptoms and effects, both acute and delayed:

Skin contact : redness, pain

Eye contact : redness

Ingestion : diarrhoea, headache, abdominal cramps, sleepiness, vomiting

4.3 Indication of any immediate medical attention and special treatment needed:

none

5 Fire-fighting measures:

5.1 Extinguishing media :

CO2, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

none

5.3 Advice for fire-fighters:

Extinguishing agents to be avoided:none

6 Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

no eating, drinking or smoking during work, keep in a sealed container, out of reach of children

6.2 Environmental precautions:

do not allow to flow into sewers or open water

6.3 Methods and material for containment and cleaning up:

dilute with water

6.4 Reference to other sections:

For further information check sections 8 & 13

7 Handling and storage:

7.1 Precautions for safe handling:

handle with care to avoid spillage

7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room Packing materials to be avoided: none

7.3 Specific end use(s):

aerosol

8 Exposure controls/personal protection:

8.1 Control parameters:

Follows a list of the hazardous elements mentioned sub 3. of which the TLV value is known:

Heptane 1664 mg/m³, Butane n- (<0,01% Butadiene -1,3) 1928 mg/m³, Ethanol 1907 mg/m³, Acetone 1210 mg/m³,

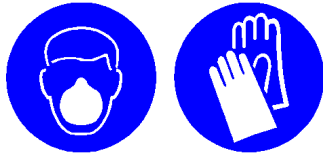
8.2 Exposure controls:

Inhalation protection : universal mask, ABEK

Skin protection : gloves, chemical proof

Eye protection: none

Other protection: none



9 Physical and chemical properties:

Melting point/melting range, °C	:	/
Boiling point/Boiling range, °C	:	56,5 - 99
pH	:	/
pH 1% diluted in water	:	/
Vapour pressure/20°C, Pa	:	853000
Vapour density, %	:	n/a
Relative density/20°C	:	/
Appearance/20°C	:	liquid
Flash point, °C	:	<-20
Flammability (solid, gas)	:	n/a
Auto-ignition temperature, °C	:	285
Upper flammability or explosive limit, Vol %	:	19
Lower flammability or explosive limit, Vol %	:	1,05
Explosive properties	:	n/a
Oxidising properties	:	n/a
Decomposition temperature, °C	:	n.d.a.
Solubility in water	:	partially soluble
Partition coefficient: n-octanol/water, %	:	n/a
Odour	:	characteristic
Odour threshold	:	n/a
Dynamic viscosity, mPa.s/20°C	:	1
Kinematic viscosity, mm ² /s/20°C	:	/
Evaporation rate (n-BuAc = 1)	:	12

9.2 Other information:

Volatile organic component (VOC), %	:	No data available
Volatile organic component (VOC), g/l	:	No data available

10 Stability and reactivity:

10.1 Reactivity:

keep in a sealed container in a closed, frost-free, ventilated room

10.2 Chemical stability:

none known

10.3 Possibility of hazardous reactions:

none known

10.4 Conditions to avoid:

handle with care to avoid spillage

10.5 Incompatible materials:

none

10.6 Hazardous decomposition products:

none known

11 Toxicological information:

11.1 Information on toxicological effects:

About the substance itself: not applicable under actual EEC guidelines for preparations

General information: see ingredients under section 3

Calculated acute toxicity, LD50 oral rat, mg/kg: No data available

12. Ecological information:

12.1 Toxicity:

not applicable under actual EEC guidelines for preparations

12.2 Persistence and degradability:

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential:

not applicable under actual EEC guidelines for preparations

12.4 Mobility in soil:

Water hazard class, WGK: No data available

12.5 Results of PBT and vPvB assessment:

not applicable under actual EEC guidelines for preparations

12.6 Other adverse effects:

not applicable under actual EEC guidelines for preparations

13 Disposal considerations:

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services.

Possible restrictive regulations by local authority should always be adhered to.

14 Transport information:

14.1 UN number:

1950

14.2 UN proper shipping name:

UN 1950, Aerosols, flammable, , (D)

14.3 Transport hazard class(es):

class(es):5F

Identification number of the hazard:

14.4 Packing group:

14.5 Environmental hazards:

Dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics:

Risk of explosion.
Risk of asphyxiation.
Containments may explode when heated.

Additional guidance:

Take cover.
Keep out of low areas.



15 Regulatory information:

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

Water hazard class, WGK	:	No data available
Volatile organic component (VOC), %	:	No data available
Volatile organic component (VOC), g/l	:	No data available

15.2 Chemical Safety Assessment:

n.d.a.

16. Other information:

Legend to abbreviations used in the safety data sheet:

n.d.a.	:	No data available
n/a	:	not applicable
Nr	:	number
CAS	:	Chemical Abstracts Service
EINECS	:	European INventory of Existing Commercial chemical Substances
WGK	:	Water hazard class
ADR	:	Accord européen relatif au transport international des marchandises Dangereuses par Route
TLV	:	Threshold Limit Value
PTB	:	persistent, toxic, bioaccumulative
vPvB	:	very persistent and very bioaccumulative substances
CLP	:	Classification , Labelling and Packaging of chemicals

Legend to the R & H Phrases used in the safety data sheet:

R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R38 Irritating to skin. R50 Very toxic to aquatic organisms. R51 Toxic to aquatic organisms. R53 May cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness and dizziness

EUH066 Repeated exposure may cause skin dryness or cracking. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Composition by regulation (EC) 648/2004:

Aliphatic hydrocarbons >30%

Reason of revision, changes of following items: 9, 16

MSDS reference number:

ECM-102497

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 453/2010. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care.. We cannot, however, accept

responsibility for damage, of any kind, that may be caused by using these data or the product concerned.. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.