

SAFETY DATA SHEET

Revision date: 26/01/2011

Print date: 21/04/2011

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

1.1 Product identifier:

ORION 87S

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

R12

2.2 Label elements:

Symbols:



Extremely flammable

R-Phrases

R12 Extremely flammable.

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.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well ventilated areas.

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:

Butane n- (<0,01% Butadiene -1,3)	10 - 25 %	CAS N°	106-97-8
		EINECS	203-448-7
		Registration no.	
		CLP Classification	Flam. Gas 1 H220
		pictogram	GHS02 - GHS04
		Symbol	F+
		R-Phrases	12
Propane	10 - 25 %	CAS N°	74-98-6
		EINECS	200-827-9
		Registration no.	
		CLP Classification	Flam. Gas 1 H220
		pictogram	GHS02 - GHS04
		Symbol	F+
		R-Phrases	12

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 continous discomforts: remove to fresh air and seek medical attention

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

Skin contact : none

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:

Butane n- (<0,01% Butadiene -1,3) 1928 mg/m³,

8.2 Exposure controls:

Inhalation protection : universal mask, ABEK

Skin protection : none

Eye protection: none

Other protection: none



9 Physical and chemical properties:

Melting point/melting range, °C	:	/
Boiling point/Boiling range, °C	:	/
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	:	/
Flammability (solid, gas)	:	n/a
Auto-ignition temperature, °C	:	365
Upper flammability or explosive limit, Vol %	:	9,5
Lower flammability or explosive limit, Vol %	:	1,8
Explosive properties	:	n/a
Oxidising properties	:	n/a
Decomposition temperature, °C	:	n.d.a.
Solubility in water	:	insoluble
Partition coefficient: n-octanol/water, %	:	n/a
Odour	:	characteristic
Odour threshold	:	n/a
Dynamic viscosity, mPa.s/20°C	:	/
Kinematic viscosity, mm ² /s/20°C	:	/
Evaporation rate (n-BuAc = 1)	:	n/a

9.2 Other information:

Volatile organic component (VOC), % : 30
Volatile organic component (VOC), g/l : 48,6

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: 2439

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: 1

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:

Not 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	:	1
Volatile organic component (VOC), %	:	30
Volatile organic component (VOC), g/l	:	48,6

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:

R12 Extremely flammable.

H220 Extremely flammable gas.

Composition by regulation (EC) 648/2004:

Aliphatic hydrocarbons 15 < 30%

Reason of revision, changes of following items: 2, 16

MSDS reference number:

ECM-102263

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.