

SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: STERIBOOTS.

Product code: P02816V01/03_LAB.

Company/undertaking identification:

Registered company name: R&D GROUPE FCA.

Address: LES ILES FERAYS .07300.TOURNON SUR RHONE.FRANCE.

Telephone: 04.75.07.82.10. Fax: .

menager@fareva.com

<http://www.fareva.com/>

Emergency telephone: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.

Use of the substance/preparation:

BIOCIDE

2 - HAZARDS IDENTIFICATION

This product is classified: Extremely flammable.

May produce an allergic reaction.

Vapors may cause drowsiness and dizziness.

Other data:

This product is for use as a biocide.

Flammability criteria calculated according to directive 2008/47/CE

pressurized container

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%
603-117-00-0	67-63-0	200-661-7	PROPAN-2-OL	Xi F	11 36 67	10 <= x % < 25

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
601-003-00-5	74-98-6	200-827-9	PROPANE	F+	12	10 <= x % < 25
601-004-00-0	106-97-8	203-448-7	BUTANE	F+	12	50 <= x % < 100
601-004-00-0	75-28-5	200-857-2	AND ISOBUTANE	F+	12	2.5 <= x % < 10

May produce an allergic reaction:

INDEX	CAS	EC	Name	Symb.	R:	%
A8050155	8050-15-5	232-476-2	ACIDES RÉSINIQUES ET ACIDES COLOPHANIQUES HYDROGÉNÉS, ESTERS DE MÉTHYLE	Xi	43	0 <= x % < 2.5

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.
Make use of reanimation technics. A prolonged clinic supervision can be usefull

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
DO NOT use solvents or thinners.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Special foams for polar liquids (known as alcohol resistant), powders, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Keep packages near the fire cool, to prevent pressurised containers from bursting.
Prevent the effluent of fire-fighting measures from entering drains or waterways.
Do not use compressed air during filling, emptying or handling.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.
Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.
Avoid inhaling the vapors.
Consult the safety measures listed under headings 7 and 8.
Prevent every risk of ignition of the steams.
Wearing of gloves, glasses and possibly with an autonomous mask.
Eliminate the fire in the zone.
The pouring can bring the surfaces slippery.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.
Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.
Use some absorbent.
The elimination must be carried out by a registered salvage professional.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Handle in well-ventilated areas.
The vapors are denser than air. They can spread along the ground and form explosive mixtures with air
Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
Do not spray on a naked flame or any incandescent material.
Shake before using.
Prevent every contact with the skin and the eyes.
Prevent accumulation of electrostatic charges.
Pulverise by short pressions, without prolonged pulverisation.
Follow hygiene and security rules because flammable capacity.
Do not use under tension.
Do not inhale steams.
Do not smoke.
Handle and store away from ignition sources and reductive substances
Follow hygiene and security biocidal rules.

Fire prevention:

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment
Keep packages tightly closed and away from sources of heat, sparks and naked flames.
Do not use tools which may produce sparks. Do not smoke.
Prevent access by unauthorised personnel.
The steams can be toxic in case of combustion.
Prevent every contact with hot surfaces or every other ignition point.
Bring away every electric appliance.

Recommended equipment and procedures:

For personal safety, see §8.
Observe precautions stated on label and also industrial safety regulations
Packages which have been opened must be reclosed carefully and stored in an upright position
Avoid inhaling vapors.
Do not smoke.
Gloves and glasses are recommended.
Keep the original packing. Do not pierce or burn even after use.
Follow the hygiene and security rules.
Rules of storage and manipulation applicables to the gaz under pressure.
Use only in well-ventilated premises.

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used
Never open the packages under pressure
Do not pierce or burn, even after use.
Follow the hygiene and the security rules.

Storage:

Keep the container tightly closed in a dry, well-ventilated place
Keep away from all sources of ignition - do not smoke.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep out of reach of children
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
67-63-0	-	-	400	980	-	84
106-97-8	800	1900	-	-	-	-
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
67-63-0	II.1	200	500	C		
75-28-5	IV	1000	2400	-		
106-97-8	IV	1000	2400	-		
74-98-6	IV	1000	1800	-		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
67-63-0	(400)	(983)	(500)	(1230)	-	S
106-97-8	800	1900	-	-	-	-
74-98-6	2500	4509	-	-	-	-

Exposure limit values (2003-2006):

UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:
67-63-0	400 ppm	500 ppm	-	-	-
106-97-8	600 ppm	750 ppm	-	-	-
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
67-63-0	400 ppm	500 ppm	-	-	-
106-97-8	600 ppm	750 ppm	-	-	-
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:	
67-63-0	200 ml/m3	500 mg/m3	2(II)	DFG, Y	
75-28-5	1000 ml/m3	2400 mg/m3	4(II)	DFG	
106-97-8	1000 ml/m3	2400 mg/m3	4(II)	DFG	
74-98-6	1000 ml/m3	1800 mg/m3	4(II)	DFG	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:
67-63-0	200 ppm	400 ppm	-	-	-
75-28-5	1000 ppm	-	-	-	-
106-97-8	1000 ppm	-	-	-	-
74-98-6	1000 ppm	-	-	-	-

Respiratory protection:

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

Prevent any inhalation from the fog.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Type of gloves recommended :

- Butyl rubber
- Neoprene
- Nitrile

Eye and face protection:

Use eye protectors designed to protect against liquid splashes

In the event of contact with the eyes, to rinse abundantly

consult an ophthalmologist if feeling of irritation.

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

Wash with soaped water, then rinse with water during 15min in case of contact.

If case of cutaneous intolerances, to consult a dermatologist

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: fluid liquid
spray

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.
The pH is impossible to measure or its value is not relevant.
Boiling point/boiling range: 82 °C.
Flash point interval: Flash point < 0°C and distillation temperature <= 35°C
Vapour pressure: Below 110 kPa (1.10 bar).
Density: < 1
Water solubility: Dilutable.
Ignore flash point value, flammability of the aerosol is calculated according to directive 2008/47/CE

Other information:

melting point/melting range: not specified.
Self-ignition temperature: 250 °C.
Decomposition point/decomposition range : 250 °C.

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide
Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Conditions to avoid:

Avoid the accumulation of electrostatic charges.
Keep away of any source of heat or of ignition.

Materials to avoid:

STRONGS OXYDISING AGENTS

Hazardous decomposition products:

Toxics products by example, carbon oxydes.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.
Splashes in the eyes may cause irritation and reversible damage

In the event of exposure by inhalation:

In case of high concentration, the steams can be irritant with effect on the nervous system.
A big inhalation can be the cause of waves of nausea and of irritation of the respiratory mucous membranes.

In the event of swallowing:

Accidentally absorption can be followed by respiratory accident.
Accidentally ingestion can lead to mouth's and abdominal's pain.

In the event of splashes or contact with skin:

Frequents contacts or prolonged ones can cause irritations.
Dry out action of the skin.
Substances contained conventionally let prevoir the possibility, at certain predisposed subjects, of a reaction of sensitizing in the event of cutaneous contact
To be translated (XML)

In the event of splashes or contact with eyes:

The contact with the eyes can cause irritations with risk of lesions, if an immediatly uncontamination is not effectuated.

Other data:

CAS 67-63-0 : IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
isopropyl alcohol DL50/cutaneous/rabbit : 13g/kg - INRS66

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.
The product must not be allowed to run into drains or waterways.

Other adverse effects:

Do not throw out product in the nature, in residual waters or superficial ones

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.
Aerosol do not pierce or burn after use
CONSIGN TO AN APPROVED COLLECTOR. CONSULT THE PREFECTORAL ORDERS IN FORCE.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

Classification:



UN1950=AEROSOLS, flammable

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	LQ2	190 327 625	E0	2	D

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	2.1	SP63	-	SP277	F-D,S-U	63 190 277 327 959	E0

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	203	75 kg	203	150 kg	A145 A153	E0
	2.1	-	-	Y203	30 kg G	-	-	-	E0

15 - REGULATORY INFORMATION

This product is for use as a biocide.

Classification by:

So called 'all preparations' Directive 1999/45/EC and its adaptations.
EC regulation 1272/2008 (CLP) and its adaptations (EC regulation 790/2009).

Preparation classification:



Extremely flammable

Contains:

Contains 232-476-2

ACIDES RÉSINIQUES ET ACIDES COLOPHANIQUES HYDROGÉNÉS, ESTERS DE MÉTHYLE.
May produce an allergic reaction.

Particular hazards associated with the preparation and safety recommendations:

- R 12 Extremely flammable.
R 67 Vapours may cause drowsiness and dizziness.
Keep away from fire, ignition source or spark - do not smoke.
S 2 Keep out of the reach of children.
S 46 If swallowed, seek medical advice immediately and show this container or label.
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.
S 51 Use only in well-ventilated areas.
S 23 Do not breathe the vapours.
Pulverise by short pressions, without prolonged pulverisation.
Do not use for any purpose other than the one for which it is intended.

Particular provisions:

Flammability criteria calculated according to directive 2008/47/CE

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

- R 11 Highly flammable.
R 12 Extremely flammable.
R 36 Irritating to eyes.
R 43 May cause sensitisation by skin contact.
R 67 Vapours may cause drowsiness and dizziness.

Biocide labelling (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/CE):

Name	CAS	%	TP
PROPAN-2-OL	67-63-0	176.24 g/kg	02
DIDECYLDIMETHYLAMMONIUM CHLORIDE	7173-51-5	0.60 g/kg	02