Regulation EC No 1907/2006 Art.31

**Productname:** N.F. Precision Cleaner Ref.Nr.:

BDS000668\_3\_20130911 (EN)

Creationdate: Replaces:

11.09.13 Version: 2.0 BDS000668 20120111

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

#### 1.1. Product identifier

#### N.F. Precision Cleaner

Aerosol

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

Cleaners - Precision

#### 1.3. Details of the supplier of the safety data sheet

**CRC Industries UK Ltd. Ambersil House - Wylds Road Castlefield Industrial Estate TA6 4DD Bridgwater Somerset United Kingdom** 

Tel.: +44 1278 727200 Fax.: +44 1278 425644 E-mail: hse.uk@crcind.com

#### 1.4. Emergency telephone number

(+44)(0)1278 72 7200

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Physical: Aerosol, category 3

Pressurised container: May burst if heated.

Health: Not classified

**Environment:** Hazardous to the aquatic environment, chronic category 3

Harmful to aquatic life with long lasting effects.

Other hazards: 6 % by mass of the contents are flammable.

## Classification according to 67/548/EEC or 1999/45/EC:

Health: Not classified Physical: Not classified

**Environment:** R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.



Regulation EC No 1907/2006 Art.31

Productname: N.F. Precision Cleaner Creationdate: Ref.Nr.: BDS000668\_3\_20130911 (EN) Replaces:

11.09.13 Version: 2.0 BDS000668\_20120111

#### 2.2. Label elements

## Labelling according to Regulation (EC) No 1272/2008

Signal word: Warning

Hazard statement(s): H229: Pressurised container: May burst if heated. H412: Harmful to aquatic life with long lasting effects.

Precautionary statement(s): P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P251: Do not pierce or burn, even after use.

P410/412: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

P501-2: Dispose of contents/container to an authorised waste collection point.

Supplemental Hazard

6 % by mass of the contents are flammable. information:

#### 2.3. Other hazards

None

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable.

#### 3.2. Mixtures

CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
142347- 07-7	420- 640-8	30-60		52/53	
811-97-2	212- 377-0	30-60	-	-	В
109-87-5	203- 714-2	1-5	F	11	В
64742-49- 0	931- 254-9	1-5	F,Xn,N	11-38-51/53- 65-67	В,Р
78-92-2	201- 158-5	0-1	Xi	10-36/37-67	В
-	927- 241-2	0-1	Xn	10-52/53-65- 66-67	В
	142347- 07-7 811-97-2 109-87-5 64742-49- 0	142347- 07-7 640-8 811-97-2 212- 377-0 109-87-5 714-2 64742-49- 0 254-9 78-92-2 201- 158-5 927-	142347- 420- 30-60 811-97-2 212- 377-0 30-60 109-87-5 714-2 1-5 64742-49- 931- 1-5 78-92-2 201- 158-5 0-1 927- 0-1	142347- 07-7 640-8 811-97-2 377-0 109-87-5 64742-49- 0 78-92-2 201- 158-5 0-1 Xi 927- 0-1  142347- 9, symbol 30-60 - 30-60 - 30-60 - 1-5 F,Xn,N  78-92-2 0-1 Xn	142347- 07-7         420- 640-8         30-60         52/53           811-97-2         212- 377-0         30-60 - 30-60 -         -           109-87-5         203- 714-2         1-5 F         11           64742-49- 0         931- 254-9         1-5 F,Xn,N         11-38-51/53- 65-67           78-92-2         201- 158-5         0-1 Xi         10-36/37-67           927- 0-1         0-1 Xp         10-52/53-65-

**Explanation notes** 

B: substance with national established workplace exposure limit

P: not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

**Hazard Class and** Registration Hazardous ingredient Hazard statement Notes CAS-nr. number Category



## Regulation EC No 1907/2006 Art.31

 Productname :
 N.F. Precision Cleaner
 Creationdate :
 11.09.13 Version : 2.0

 Ref.Nr.:
 BDS000668\_3\_20130911 (EN)
 Replaces:
 BDS000668\_20120111

Reaction mass of (3R,4R)- 1,1,1,2,2,3,4,5,5,5-decafluoropentane and (3S,4S)-1,1,1,2,2,3,4,5,5,5- decafluoropentane	01- 2119446695- 28	142347- 07-7	420- 640-8	30- 60	Aquatic Chronic 3	H412	
Naphtha (petroleum), hydrotreated light	01- 2119484651- 34	64742- 49-0	931- 254-9	1-5	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H225,H315,H336,H304,H411	В,Р
butan-2-ol		78-92-2	201- 158-5	0-1	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3, STOT SE 3	H226,H319,H335,H336	В
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01- 2119471843- 32	-	927- 241-2	0-1	Flam. Liq. 3, Aquatic Chronic 3, Asp. Tox. 1, STOT SE 3	H226,H412,H304,H336	В

#### **Explanation notes**

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

Contact with eyes :	If substance has got into eyes, immediately wash out with plenty of water
Contact with skin :	Wash with plenty of soap and water.
Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion :	If swallowed accidentally, do not induce vomiting and seek medical advice.

## 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation:** Excessive inhalation of solvent vapours may give rise to nausea, headaches

and dizziness

**Ingestion:** May cause gastrointestinal disturbances

Symptoms: sore throat, abdominal pain, nausea, vomiting

**Skin contact :** Repeated exposure may cause skin dryness or cracking.

**Eye contact :** May cause irritation.

Symptoms: redness and pain

#### 4.3. Indication of any immediate medical attention and special treatment needed

General Advice: In case of accident or if you feel unwell, seek medical advice (show the label

where possible)

If symptoms persist always call a doctor

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

water, foam, carbon dioxide or dry agent



B: substance with national established workplace exposure limit

P: not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

<sup>(\*</sup> Explanation phrases : see chapter 16)

Regulation EC No 1907/2006 Art.31

**Productname:** N.F. Precision Cleaner Ref.Nr.: BDS000668\_3\_20130911 (EN) Creationdate: Replaces:

11.09.13 Version: 2.0 BDS000668\_20120111

## 5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C Forms hazardous decomposition products CO,CO2

HF may be formed under condition of fire

## 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water In case of fire, do not breathe fumes

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources Ensure adequate ventilation Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses

## 6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material Wash spill site with water and detergent

#### 6.4. Reference to other sections

For further information see section 8

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition

Do not spray on a naked flame or incandescent material.

Do not pierce or burn aerosols, even after use.

Do not breathe aerosols or vapours.

Ensure adequate ventilation

Avoid contact with skin and eyes.

#### 7.2. Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Store in a well-ventilated place.



Regulation EC No 1907/2006 Art.31

Productname : N.I Ref.Nr.: BD

N.F. Precision Cleaner BDS000668\_3\_20130911 (EN) Creationdate: Replaces:

11.09.13 Version : 2.0 BDS000668\_20120111

Keep out of reach of children.

# 7.3. Specific end use(s)

Cleaners - Precision

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure limits:**

Hazardous ingredient	CAS-nr.	method	
National established exposure limits, United Kingdom			
tetrafluoroethane	811-97-2	TWA	1000 ppm

## 8.2. Exposure controls

**Control procedures:** Ensure adequate ventilation

Keep away from heat and sources of ignition

**Personal protection:** Take precautions to avoid contact with skin and eyes when handling the

product.

Ensure adequate ventilation

**inhalation:** In case of insufficient ventilation, wear suitable respiratory equipment.

Air purifying respirator equiped with organic gas/vapor cartridge (type A or AX)

hands and skin: Wear suitable protective gloves against chemicals

eyes: Wear safety goggles.

**Environmental protection:** Avoid release to the environment.

Collect spillage.

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

**Apperance : physical state :** Liquid under pressure.

colour :Colorless.odour :Solvent.pH :Not applicable.Boiling point/range :Not available.Flash point :< 0 °C</th>

Evaporation rate: Not available.
Explosion limits: upper limit: Not available.
lower limit: Not available.
Vapour pressure: Not available.

**Relative density:** 1.39 g/cm3 (@ 20°C). **Solubility in water:** Insoluble in water



Regulation EC No 1907/2006 Art.31

Productname : Ref.Nr.:

N.F. Precision Cleaner BDS000668\_3\_20130911 (EN) Creationdate : Replaces:

11.09.13 Version : 2.0 BDS000668\_20120111

Auto-ignition: > 200 °C
Viscosity: Not available.

#### 9.2. Other information

**VOC**: 1220 g/l

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

## 10.2. Chemical stability

Stable

## 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

#### 10.4. Conditions to avoid

Avoid overheating

# 10.5. Incompatible materials

Strong oxidising agent

# 10.6. Hazardous decomposition products

CO,CO2

HF may be formed under condition of fire

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

**Inhalation :** Excessive inhalation of solvent vapours may give rise to nausea, headaches

and dizziness

**Ingestion:** May cause gastrointestinal disturbances

**Skin contact :** May cause irritation. **Eye contact :** May cause irritation.

# Toxicological data:

Hazardous ingredient CAS-nr. method



## Regulation EC No 1907/2006 Art.31

 Productname :
 N.F. Precision Cleaner
 Creationdate :
 11.09.13 Version : 2.0

 Ref.Nr.:
 BDS000668\_3\_20130911 (EN)
 Replaces:
 BDS000668\_20120111

Reaction mass of $(3R,4R)-1,1,1,2,2,3,4,5,5,5$ -decafluoropentane and $(3S,4S)-1,1,1,2,2,3,4,5,5,5$ -decafluoropentane	142347-07- 7	LD50 oral rat	> 2000 mg/kg
		LC50 inhal.rat	114 mg/l
		LD50 derm.rabit	> 2000 mg/kg
butan-2-ol	78-92-2	LD50 oral rat	2193 mg/kg
		LD50 derm.rabit	> 2000 mg/kg
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	_	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 2500 mg/m3
		LD50 derm.rabit	> 5000 mg/kg
Naphtha (petroleum), hydrotreated light	64742-49-0	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 20 mg/l
		LD50 derm.rabit	> 3000 mg/kg

# SECTION 12: Ecological information

# 12.1. Toxicity

Hazardous to the aquatic environment, chronic category 3 Harmful to aquatic life with long lasting effects.

# **Ecotoxicological data:**

Hazardous ingredient	CAS-nr.	method	
Reaction mass of (3R,4R)-1,1,1,2,2,3,4,5,5,5-decafluoropentane and (3S,4S)-1,1,1,2,2,3,4,5,5,5-decafluoropentane	142347-07- 7	LC50 fish	13 mg/l
		EC50 daphnia	11.7 mg/l
butan-2-ol	78-92-2	IC50 algae	2029 mg/l
		LC50 fish	2993 mg/l
		EC50 daphnia	308 mg/l
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	IC50 algae	> 1000 mg/l
		LC50 fish	< 30 mg/l
		EC50 daphnia	< 50 mg/l
Naphtha (petroleum), hydrotreated light	64742-49-0	IC50 algae	55 mg/l
		LC50 fish	> 1 mg/l
		EC50 daphnia	3.87 mg/l

# 12.2. Persistence and degradability

No experimental data available



Regulation EC No 1907/2006 Art.31

Productname:

Ref.Nr.:

N.F. Precision Cleaner

BDS000668\_3\_20130911 (EN)

Creationdate : Replaces:

11.09.13 Version : 2.0 BDS000668\_20120111

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No experimental data available

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Product:** This material and its container must be disposed of in a safe way.

Do not discharge into drains or the environment, dispose to an authorised

waste collection point.

**Contaminated packaging:** Disposal should be in accordance with local, state or national legislation

# **SECTION 14: Transport information**

14.1. UN number

UN-number: 1950

14.2. UN proper shipping name

Proper shipping name: AEROSOLS

14.3. Transport hazard class(es)

Class: 2.2 ADR/RID - Classification code: 5A

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally No



# Regulation EC No 1907/2006 Art.31

**Productname:** 

N.F. Precision Cleaner

Ref.Nr.: BDS000668\_3\_20130911 (EN) Creationdate: Replaces:

11.09.13 Version: 2.0 BDS000668 20120111

hazardous:

IMDG - Marine pollutant:

No

IATA/ICAO - Environmentally

hazardous:

No

## 14.6. Special precautions for user

ADR/RID - Tunnelcode:	(E)
IMDG - Ems:	F-D, S-U
IATA/ICAO - PAX:	203
IATA/ICAO - CAO	203

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

# SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.

Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

EU-directive 99/45/EC

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 1907/2006 (REACH)

## 15.2. Chemical safety assessment

No information available

# SECTION 16: Other information

\*Explanation risk-phrases:

R10: Flammable.

R11: Highly flammable.

R38: Irritating to skin.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness. R36/37: Irritating to eyes and respiratory system.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

\*Explanation hazard statements: H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.



# Safety Data Sheet Regulation EC No 1907/2006 Art.31

 Productname :
 N.F. Precision Cleaner
 Creationdate :
 11.09.13 Version : 2.0

 Ref.Nr.:
 BDS000668\_3\_20130911 (EN)
 Replaces:
 BDS000668\_20120111

H411 : Toxic to aquatic life with long lasting effects. H412 : Harmful to aquatic life with long lasting effects.

REVISIONS IN CHAPTRE: 2.2. Label elements

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

