SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



NOVAIR FORCE

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

1.1. Product identifier

: NOVAIR FORCE Product name **Registration number REACH** Product type REACH : Mixture

: Not applicable (mixture)

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio* Industrielaan 5B B-2250 Olen +32 14 25 76 40 **▲** +32 14 22 02 66 info@novatio.be *NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen +32 14 85 97 37 ₲ +32 14 85 97 38 info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) : +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

C	lassified as danger	ous according to the c	riteria of Regulation (EC) No 1272/2008
C	lass	Category	Hazard statements
A	verosol	category 3	H229: Pressurised container: May burst if heated.

2.2. Label elements

Hazard pictograms

No pictogram is used	
Signal word	Warning
H-statements	
H229	Pressurised container: May burst if heated.
P-statements	
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 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 9, 12, 15 Revision number: 0500

Publication date: 2007-01-10 Date of revision: 2021-05-05

16239-020-en

878-2

3.2. Mixtures

	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
1,3,3,3-tetrafluoro-1-propene 01-0000019758-54	471-480-0	C>30 %	Press. Gas - Liquefied gas; H280		Propellant	

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, consult a doctor/medical service.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:

No effects known.

After eye contact:

Redness of the eye tissue.
After ingestion:

Abdominal pain. Headache. Diarrhoea. Vomiting. Movement disturbances.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher. Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

No data available

Reason for revision: 9, 12, 15

Publication date: 2007-01-10 Date of revision: 2021-05-05

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Fireproof storeroom. Protect against frost. Keep out of direct sunlight.

7.2.2 Keep away from:

Heat sources

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

- 8.1.2 Sampling methods
 - If applicable and available it will be listed below.
- 8.1.3 Applicable limit values when using the substance or mixture as intended
 - If limit values are applicable and available these will be listed below.
- 8.1.4 Threshold values
- If applicable and available it will be listed below.
- 8.1.5 Control banding
 - If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Protective gloves against chemicals (EN 374).

	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.35 mm	Class 6	

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

Reason for revision: 9, 12, 15

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	No data available on colour
Particle size	Not applicable (aerosol)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	Not applicable (aerosol)
Kinematic viscosity	Not applicable (aerosol)
Melting point	Not applicable (aerosol)
Boiling point	-19 °C ; Liquid
Relative vapour density	No data available in the literature
Vapour pressure	4.2 hPa ; 20 °C ; Liquid
Solubility	Water ; insoluble
Relative density	1.17 ; 20 °C ; Liquid
Absolute density	1170 kg/m³ ; 20 °C ; Liquid
Decomposition temperature	No data available in the literature
Auto-ignition temperature	Not applicable (aerosol)
Flash point	Not applicable (aerosol)
рН	Not applicable (non-soluble in water)

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available <u>Conclusion</u> Not classified for acute toxicity

Corrosion/irritation

<u>NOVAIR FORCE</u> No (test)data on the mixture available <u>Conclusion</u> Not classified as irritating to the skin Not classified as irritating to the eyes

Respiratory or skin sensitisation

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Reason for revision: 9, 12, 15

Publication date: 2007-01-10 Date of revision: 2021-05-05

Revision number: 0500

BIG number: 44606

No (test)data on the mixture available <u>Conclusion</u> Not classified as sensitizing for skin

Specific target organ toxicity

<u>NOVAIR FORCE</u> No (test)data on the mixture available <u>Conclusion</u> Not classified for subchronic toxicity

Mutagenicity (in vitro)

<u>NOVAIR FORCE</u> No (test)data on the mixture available

Mutagenicity (in vivo)

<u>NOVAIR FORCE</u> No (test)data on the mixture available <u>Conclusion</u> Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

<u>NOVAIR FORCE</u> No (test)data on the mixture available <u>Conclusion</u> Not classified for carcinogenicity

Reproductive toxicity

<u>NOVAIR FORCE</u> No (test)data on the mixture available

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

<u>NOVAIR FORCE</u> No (test)data on the mixture available

Chronic effects from short and long-term exposure

<u>NOVAIR FORCE</u> No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

<u>NOVAIR FORCE</u> No (test)data on the mixture available Judgement of the mixture is based on the relevant ingredients

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

Reason for revision: 9, 12, 15

Publication date: 2007-01-10 Date of revision: 2021-05-05

No (test)data on mobility of the component(s) available

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

Contains component(s) included in Annex II of the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 30 (separately collected fractions (except 15 01): detergents other than those mentioned in 20 01 29). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Specific treatment. Remove waste in accordance with local and/or national regulations.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC). 15 01 04 (metallic packaging).

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SECTION 14: Transport information

Road (ADR)

· ·	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5A
4.4. Packing group	
Packing group	
Labels	2.2
4.5. Environmental hazards	
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1. UN number	
UN number	1950
14. <u>2. UN proper shipping name</u>	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Hazard identification number	20
Class	2
Classification code	5A
14. <u>4. Packing group</u>	
Packing group	
Labels	2.2
14.5. Environmental hazards	
Environmentally hazardous substance mark	no

Publication date: 2007-01-10 Date of revision: 2021-05-05

14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number	
UN number	1950
4.2. UN proper shipping name	
Proper shipping name	aerosols
4.3. Transport hazard class(es)	
Class	2
Classification code	5A
4.4. Packing group	
Packing group	
Labels	2.2
4. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

4.1. UN number	
UN number	1950
4.2. UN proper shipping name	
Proper shipping name	aerosols
4.3. Transport hazard class(es)	
Class	2.2
4.4. Packing group	
Packing group	
Labels	2.2
4. <u>5</u> . Environmental hazards	
Marine pollutant	-
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	63
Special provisions	959
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

Annex II of MARPOL 73/78 Not applicable

Air (ICAO-TI/IATA-DGR)

14. <u>1</u> . UN number		
UN number	1950	
14.2. UN proper shipping name		
Proper shipping name	aerosols, non-flammable	
14.3. Transport hazard class(es)		
Class	2.2	
14.4. Packing group		
Packing group		
Labels	2.2	
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions	A145	
Special provisions	A167	
Special provisions	A802	

Reason for revision: 9, 12, 15

Publication date: 2007-01-10

Date of revision: 2021-05-05

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Special provisions	A98	
Passenger and cargo	o transport s: maximum net quantity per packaging 30 kg G	
· · · · ·		
	ulatory information and environmental regulations/legislation specific for the substance or mixture	
European legislation:		
VOC content Directi	tive 2010/75/EU	
VOC content	Remark	
100 % 1170 g/l		
	ng to Regulation (EC) No 648/2004 and amendments	
-	ted hydrocarbons	
National legislation B	Belgium	
<u>NOVAIR FORCE</u> No data availabl	le	
<u>National legislation T</u> <u>NOVAIR FORCE</u>		
Waterbezwaarlij	jkheid B (4); Algemene Beoordelingsmethodiek (ABM)	
National legislation Fi NOVAIR FORCE	rance	
No data availabl	le	
National legislation G	Germany	
NOVAIR FORCE		
WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017	1
Novair Force	Jnited Kingdom	
No data availabl	le	
Other relevant data		
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Reason for revision: 9, 12, 15

Publication date: 2007-01-10 Date of revision: 2021-05-05

Revision number: 0500

BIG number: 44606