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

- 1.1. Product identifier:
Trade name: **N. F. – NON FLAMMABLE CONTACT CLEANER**
Product code: **R 91020 (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Non-flammable degreaser.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Aerosol 3 H229 Pressurised container: May burst if heated.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Warning

Hazard Statements:
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Precautionary Statements:
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.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:
109-65-9 1-bromobutane

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Further information:
57 % by mass of the contents are flammable.

- 2.3. Other hazards:
Results of PBT and vPvB assessment:
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. Section 3. Composition/information on ingredients:

- 3.2. Mixtures:
Description of the mixture: Mixture of active ingredients with propellants

Hazardous ingredients:

CAS: 109-65-9	1-Brombutane	30 - 100 %
EINECS: 203-691-9	Flam. Liq. 3, H226; Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 74-95-3	Dibrommethane	15 - 30 %
EINECS: 200-824-2	Acute Tox. 4, H332; Aquatic Chronic 3, H412	

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

- 4.1. Description of first aid measures:
General notes: When in doubt or if symptoms are observed, get medical advice.
After inhalation: Move affected person to fresh air and keep at rest.
After skin contact: Wash with plenty of water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor.
After swallowing: Do not induce vomiting.
Consult a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed:
See Section 11.
- 4.3. Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

5. Section 5. Fire fighting measures:

- 5.1. Extinguishing media:
Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, foam, water haze.
Unsuitable extinguishing agents: Water jet.
- 5.2. Special hazards arising from the substance or mixture:
Do not breathe combustion products.
- 5.3. Advice for firefighters:
Wear protective clothing, gloves, boots, helmet and self-contained breathing apparatus.
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment, see Section 8.
Keep unprotected persons away.
Ensure adequate ventilation.
Keep away from ignition sources.
- 6.2. Environmental precautions:
Avoid leakage into the environment.
Do not allow to enter sewage system, surface or ground water.
Inform respective authorities in case product reaches water course or sewage system.

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- 6.3. Methods and material for containment and cleaning up:
 Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to Section 13.
- 6.4. Reference to other sections:
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7. Section 7. Handling and storage:

- 7.1. Precautions for safe handling:
 Protective measures: Wear protective equipment, see Section 8.
 Ensure good ventilation/exhaustion at the workplace.
 Do not eat, drink or smoke when using this product.
 Avoid breathing vapours/spray.
- Measures to prevent fire: Keep away from heat, sparks and naked flames.
 Do not smoke or use matches or lighters.
 Without adequate ventilation, vapours may accumulate at ground level, it may travel considerable distance to an ignition source and flash back.
 Avoid bunching of electrostatic charges.
- 7.2. Conditions for safe storage, including any incompatibilities:
 Requirements for storage rooms and vessels:
 Store in a cool (at a temperature below 50 °C), well-ventilated place.
 Observe official regulations on storing packagings with pressurized containers.
- Technical measures and storage conditions:
 Observe official regulations on storing packagings with pressurized containers.
- Further information on storage conditions:
 Keep far away from sources sources of ignition.
 Keep away from heat and direct sunlight.
- 7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls/personal protection:

- 8.1. Control parameters:
 Components with limit values that require monitoring at the workplace:
 WEL (United Kingdom): EH40/2005
 Contains no substances with occupational exposure limit values.
- OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG
 Contains no substances with occupational exposure limit values.
- Additional information: The lists that were valid during the compilation were as basis.
- 8.2. Exposure controls:
 Technical measures to prevent exposure:
 Ensure good ventilation/exhaustion at the workplace.
 An emergency eye washing and shower system must be provided.
- General protective measures: The usual precautionary measures should be adhered to general rules for handling chemicals.
 Wash hands before breaks and at the end of work.
 Wash body with soap and water after removing overalls.
 Avoid breathing vapours/spray.
 Avoid skin and eye contact.
- Personal protection equipment:
 Respiratory protection: If the threshold value is exceeded for the substance or one of the substances present in the product, a mask with a type B filter combined with a type P filter should be worn.
 Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered.

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Eye protection:	The protection provided by masks is in any case limited. Airtight protective goggles.
Hand protection:	Not required.
Skin protection:	Wear category II professional long-sleeved overalls and safety footwear.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Aerosol
Colour:	Colourless
Odour:	Characterisrtic
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	Not determined.
Flash point:	Not determined.
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Explosive properties:	Not determined.
Explosive limits:	
– lower:	Not determined.
– upper:	Not determined.
Vapour pressure at 20°C:	Not determined.
Vapour density at 20 °C:	Not determined.
Density at 20°C:	1.31 g/cm ³
Relative density:	Not determined.
Solubility in/miscibility:	Insoluble in water.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-ignition temperature:	Not determined.
Viscosity:	Not determined.
Oxidising properties:	Not determined.

9.2. Other information: No further relevant information available.

10. Section 10. Stability and reactivity:

10.1. Reactivity:	There are no particular risks of reaction with other substances in normal conditions of use.
10.2. Chemical stability:	The product is stable in normal conditions of use and storage.
10.3. Possibility of hazardous reactions:	No hazardous reactions are foreseeable in normal conditions of use and storage.
10.4. Conditions to avoid:	Avoid overheating.
10.5. Incompatible materials:	Strong reducing or oxidising agents, strong acids or alkalis, hot material.
10.6. Hazardous decomposition products:	No further relevant information available.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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Respiratory or skin sensitization:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity

- single exposure:

May cause respiratory irritation.

Specific target organ toxicity

- repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Other information:

Acute effects:

After eye contact:

It may cause stinging eyes. Symptoms may include rubescence, edema, pain and lachrymation.

After inhalation:

Vapour inhalation may slightly irritate the upper respiratory tract. Vapour inhalation may irritate the lower and upper respiratory tract and cause cough and respiratory disorders. At higher concentrations it can also cause pulmonary edema.

After ingestion:

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

After skin contact:

Contact with skin may cause slight irritation, erythema, edema, dryness and chapped skin.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity:

No further relevant information available.

12.2. Persistence and degradability:

No further relevant information available.

12.3. Bioaccumulative potential:

No further relevant information available.

12.4. Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes:

Avoid the leakage.

Do not contaminate soil, sewers and waterways.

Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects:

No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal:

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Do not contaminate soil, sewers and waterways.

European Waste Catalogue: 16 03 05* organic wastes containing hazardous substances

(*hazardous waste)

Packagings disposal:

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

European Waste Catalogue: 15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*hazardous waste)

Other disposal recommendations:

Disposal must be made according to official regulations.

The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

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14. Section 14. Transport information:

14.1. UN number:

ADR/RID, IMDG, IATA UN 1950

14.2. UN proper shipping name:

ADR/RID UN 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, non-flammable

14.3. Transport hazard class(es):

ADR/RID



Class: 2

Hazard label: 2.2

IMO



Class: 2.2

Hazard label: 2.2

IATA



Class: 2.2

Hazard label: 2.2

14.4. Packing group:

ADR/RID, IMDG, IATA Void.

14.5. Environmental hazards:

Marine pollutant: No.

14.6. Special precautions for user: Warning: Gases.

Danger Code (Kemler): -

EMS Number: F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable.

ADR

Omezené množství (LQ) 1L

Kód omezení pro tunely: (E)

IATA

Cargo:

Packing instructions: 203 Maximum quantity: 150 kg

Pass.:

Packing instructions: 203 Maximum quantity: 75 kg

Special instructions: A98, A145, A167, A802

UN „Model Regulation“: UN 1950, AEROSOLS, 2.2

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

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Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values
Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMO: International Maritime Organisation

PBT: Persistent, Bioaccumulative, Toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

vPvB: Very Persistent, Very Bioaccumulative

Acute Tox. 4: Acute toxicity, category 4

Aerosol 3: Aerosol, category 3

Aquatic Chronic 3: Hazardous to the aquatic environment, category 3

Eye Irrit. 2: Serious eye irritation, category 2

Flam. Liq. 3: Flammable liquid, category 3

Skin Irrit. 2: Skin irritation, category 2

STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**