



Date of issue: 20.07.2011	Trade name:	Page: 1/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

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

- 1.1. Product identifier: **N.F.-Non Flammable Contact Cleaner - R 91020**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Nonflammable and nonconducting cleaning agent
- 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/Fax: +420 327 596 128, +420 327 596 428
Information: info@retech.cz
- 1.4. Emergency telephone number:
RETECH Suchdol 212, Suchdol u Kutné Hory
Tel.+420 327 596 128 (7.30-16.00 hour)
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008:
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H314 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Respiratory Irrit.2 H335 May cause respiratory irritation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
Xn-Harmful R20 Harmful by inhalation.
Xi-Irritant R36/37/37 Irritating to eyes, respiratory system and skin.
- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008:
GHS07

WARNING
H332 Harmful if inhaled.
H314 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- Labelling according to Directive 1999/45/EC:
Xn

Harmful
R 20 Harmful by inhalation.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Date of issue: 20.07.2011	Trade name:	Page: 2/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

Special labeling of certain preparations:

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

Keep out of reach of children.

56.0 % by mass of the contents are flammable.

Do not breathe aerosols.

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient in propellants

Dangerous components:

CAS: 74-95-3 EINECS: 200-824-2	Dibrommethane Xn R20; R52/53 GHS07 Acute Tox. 4, H332; Aquatic Chronic 3, H412	15-<25%
CAS: 109-65-9 EINECS: 203-691-9	n-brombutane R10; Xi R36/37/38	30-<100%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

After skin contact: Take off contaminated clothing. Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical advice

After swallowing: Rinse mouth; Do not induce vomiting; Consult a physician.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

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), fire-extinguishing powder, water haze or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:

The products of decomposition can contain carbon monoxide and toxic pyrolysis products.

5.3. Advice for firefighters:

Wear protective equipment/clothing when fighting fires.

Aerosols may explode when overheated. Cool the container with water.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective equipment see Section 8. Ensure adequate ventilation. Keep unprotected person away.

6.2. Environmental precautions:

Do not allow product to reach sewage system, surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Date of issue: 20.07.2011	Trade name:	Page: 3/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to see 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. Information for safe handling: Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: Pressurized container: protect from sunlight and do not expose and temperatures over 50°C. Do not pierce or burn, even after use.

7.2. Conditions for safe handling, including any incompatibilities:
Requirements to be met by storerooms and containers: Observe official regulations on storing packaging with pressurized containers.

Information about storage in one common storage facility: Information not available.
Further information about storage conditions: Protect from heat and direct sunlight.

7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls and personal protection:

8.1. Control parameters:
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at workplace.

8.2. Exposure controls:
Eye protection: Tightly sealed goggles
Breathing equipment: Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation. Filter AX/P2
Protection of hands: Protective gloves solvent resistant (Nitrile rubber, NBR). Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation.
The exact break through time has not be found out by manufacturer of the protective gloves and has to be observed.
Protection of skin: Protective working clothes.

8.3. General protective and hygienic measures: The usual precautionary measures should be adhered to general rules for handling chemicals. Take off immediately all contaminated clothing. Do not inhale gases / fumes / aerosols. Avoid contact with eyes and skin. Do not eat, drink or smoke while working.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Appearance:	
form:	Aerosol
colour:	Colourless
Odour threshold:	Characteristic
Value pH:	7-9
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid,gas):	Incombustible
Explosive properties:	Product is not explosive.
Upper/lower flammability or explosive limits:	

Date of issue: 20.07.2011	Trade name:	Page: 4/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

<p>Explosion limits: lower (% Vol): - upper (% Vol): - Vapour pressure (at 20°C): Not determined Vapour density (at 20 °C): Not determined Relative density: 1.31 g/cm³ Solubility in/miscibility with - water Insoluble Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Oxidative properties: Not determined</p> <p>9.2. Other information: VOC: 825g/l</p>	
<p>10. Section 10. Stability and reactivity:</p> <p>10.1. Reactivity: No further relevant information available. 10.2. Chemical stability: No further relevant information available. 10.3. Possibility of hazardous reactions: No dangerous reactions known. 10.4. Conditions to avoid: There are known no conditions to avoid. 10.5. Incompatible materials: There are known no incompatible materials. 10.6. Hazardous products of decomposition: The products of decomposition can contain carbon monoxide and toxic pyrolysis products.</p>	
<p>11. Section 11. Toxicological information:</p> <p>11.1. Acute toxicity: Information not available. Irritation: on the skin: Contact with skin may cause irritation, erythema, dryness and chapped skin. on the eye: Irritation. Symptoms may include erythema, edema, pain and lacrimation. Corrosivity: Not corrosive. Sensitization: No sensitizing effect known. Repeated dose toxicity: No further relevant information available. Carcinogenicity: No further relevant information available. Mutagenicity: No further relevant information available. Toxicity for reproduction: No further relevant information available. Other information: Vapour inhalation may moderately irritate the lower and upper respiratory tract and cause cough and respiratory disorders. Ingestion may cause health problems, including stomach pain, nausea and sickness.</p>	
<p>12. Section 12. Ecological information:</p> <p>Water hazard: hazardous for water. Do not allow undiluted product to reach ground water, water course or sewage system.</p> <p>12.1. 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. 12.5. Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable 12.6. Other adverse effects: No further relevant information available.</p>	
<p>13. Section 13. Disposal considerations:</p> <p>13.1. Waste treatment methods: Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Uncleaned packagings: Disposal must be made according to official regulations.</p>	

Date of issue: 20.07.2011	Trade name:	Page: 5/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

14. Section 14. Transport information:

- 14.1. Land transport:
 ADR/RID-GGVS/E class: 2
 Number/Letter: 5A
 Number UN: 1950
 Label: 2.2
 Description of goods: Aerosols
- 14.2. Maritime transport:
 IMDG-class: 2.2
 Page: -
 Number UN: 1950
 Packaging group: -
 EMS-group: F-D, S-U
 Label: 2.2
 MFAG: -
 Proper shipping name: Aerosols
- 14.3. Air transport:
 ICAO / IATA -class: 2.2
 UN/ID number: 1950
 Label: -
 Packaging group: -
 Proper shipping name: Aerosols, non-flammable
 UN "Model Regulation": UN1950, AEROSOLS, 2.2
 Special precautions for users: Warning: Gases
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. Section 15. Regulatory information:

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
 Labelling according to law line:
 The product has been labeled in accordance with EC Directives / relevant national laws.
 Danger of determining components and mark to labelling:
 Contains: 74-95-3 Dibrommethan
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn.
 56.0 % by mass of the contents are flammable.

Labelling hazardousness:



Xn - Harmful

Numbers and word reading associated hazard R-sentences :
 R 20 Harmful by inhalation.
 R 36/37/38 Irritating to eyes, respiratory system and skin.

Numbers and word reading associated security S-sentences:

Date of issue: 20.07.2011	Trade name:	Page: 6/6
Reviewed on:	N.F.-Non Flammable Contact Cleaner	Version: 1.0

- S 2 Keep out of the reach children.
S 23 Do not breathe vapours / spray.
S 24/25 Avoid contact with skin and eye.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 51 Use only in well-ventilated areas.
S 56 Dispose of this material and its container at hazardous or special waste collection point.

Density: 1,31 g/cm³
VOC: 825 g/l

Used legislation:

European Regulation (EC) No 1907/2006 – REACH.
Commission Regulation (EU) No 453/2010.
European Regulation No 67/548EEC and 1999/45/EC.
Commission Regulation (EC) No 1272/2006 – CLP.
Commission Regulation (EC) No 790/2009.
Regulation (EC) No 648/2004 (detergents).

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

16. Section 16. Other information:

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.

Relative R+H phrases:

R 10 Flammable.
R 20 Harmful by inhalation.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
WEL- Workplace exposure limits
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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