

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

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

- **1.1 Product identifier**
- **Trade name:** GRF BISON/CONTACT TIX TI 750ML*6 L221
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Bison International
Dr.A.F.Philipsstraat 9
NL-4462 EW Goes
PO Box 160
NL-4460 AD Goes
tel. +31 88 3235700
fax. +31 88 3235800
e mail: sds@boltonadhesives.com
- **Further information obtainable from:** PSRA
- **1.4 Emergency telephone number:**
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 1)

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Butanone
Methylcyclohexane
Ethyl acetate
Acetone

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P261 Avoid breathing vapours.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulations.

- **Additional information:**

EUH208 Contains Rosin. May produce an allergic reaction.

- **Labelling of packages where the contents do not exceed 125 ml**

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Butanone
Methylcyclohexane
Ethyl acetate
Acetone

- **Hazard statements**

H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P261 Avoid breathing vapours.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

(Contd. on page 3)

IE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 2)

· **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties**

78-93-3 Butanone

List II

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	Butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-50%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-XXXX	Ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-25%
CAS: 108-87-2 EINECS: 203-624-3 Index number: 601-018-00-7 Reg.nr.: 01-2119556887-18-XXXX	Methylcyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥10-<25%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-XXXX	Acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥2.5-<10%
CAS: 25085-50-1 EC number: 607-533-3	p-tert-butylphenol formaldehyde resin ⚠ Skin Sens. 1, H317	2.5-10%
CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0 Reg.nr.: Exempt	Magnesium oxide substance with a Community workplace exposure limit	<1%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7 Reg.nr.: 01-2119480418-32-XXXX	Rosin ⚠ Skin Sens. 1, H317	≥0.1-<1%
CAS: 123-26-2 EINECS: 204-613-6 Reg.nr.: 01-2119978265-26	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1- amide) ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<1%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32-XXXX	Zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 3)

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water haze
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Send for recovery or disposal in suitable receptacles.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 5)

IE

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

See Section 13 for disposal information.

(Contd. of page 4)

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

· **Storage class:** 3

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

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

78-93-3 Butanone

OEL (Ireland)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Skin, IOELV
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IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
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141-78-6 Ethyl acetate

OEL (Ireland)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm IOELV
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IOELV (EU)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
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108-87-2 Methylcyclohexane

OEL (Ireland)	Long-term value: 1600 mg/m ³ , 400 ppm
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67-64-1 Acetone

OEL (Ireland)	Long-term value: 1210 mg/m ³ , 500 ppm IOELV
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IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm
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(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 5)

1309-48-4 Magnesium oxide

OEL (Ireland)	Short-term value: 10** mg/m ³ Long-term value: 4* 5** 10*** mg/m ³ *respirable dust **fume ***total inhalable dust
---------------	--

· DNELs

78-93-3 Butanone

Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	1161 mg/kg bw/day
	Consumer, dermal, longterm exposition	412 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	600 mg/m ³
	Consumer, inhalative, longterm exposition	106 mg/m ³

141-78-6 Ethyl acetate

Oral	Consumer, oral, longterm exposition	4.5 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	63 mg/kg bw/day
	Consumer, dermal, longterm exposition	37 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	1468 mg/m ³
	Worker, inhalative, longterm exposition	734 mg/m ³
	Consumer DNEL, acute inhalation	734 mg/m ³
	Consumer, inhalative, longterm exposition	367 mg/m ³

108-87-2 Methylcyclohexane

Oral	Consumer, oral, longterm exposition	0.4 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	1.7 mg/kg bw/day
	Consumer, dermal, longterm exposition	0.8 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	1354.6 mg/m ³
	Worker, inhalative, longterm exposition	64.3 mg/m ³
	Consumer DNEL, acute inhalation	1016 mg/m ³
	Consumer, inhalative, longterm exposition	16 mg/m ³

67-64-1 Acetone

Oral	Consumer, oral, longterm exposition	62 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	186 mg/kg bw/day
	Consumer, dermal, longterm exposition	62 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	2420 mg/m ³
	Worker, inhalative, longterm exposition	1210 mg/m ³
	Consumer, inhalative, longterm exposition	200 mg/m ³

· PNECs

78-93-3 Butanone

Oral	Secondary Poisoning	1000 mg/kg
	Fresh water	55.8 mg/l
	Fresh water sediment	284.7 mg/kg dry weight
	Marine water	55.8 mg/l
	Marine sediment	284.7 mg/kg dry weight

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 6)

Soil	22.5 mg/kg
Sewage treatment plant	709 mg/l
Sporadic release	55.8 mg/l
141-78-6 Ethyl acetate	
Fresh water	0.24 mg/l
Fresh water sediment	1.15 mg/kg dry weight
Marine water	0.024 mg/l
Marine sediment	0.115 mg/kg dry weight
Soil	0.148 mg/kg
Sewage treatment plant	650 mg/l
108-87-2 Methylcyclohexane	
Fresh water	0.00134 mg/l
Fresh water sediment	0.0362 mg/kg dry weight
Marine water	0.000134 mg/l
Marine sediment	0.00362 mg/kg dry weight
Soil	0.0097 mg/kg
Sewage treatment plant	0.273 mg/l
67-64-1 Acetone	
Fresh water	10.6 mg/l
Fresh water sediment	30.4 mg/kg dry weight
Marine water	1.06 mg/l
Marine sediment	3.04 mg/kg dry weight
Soil	29.5 mg/kg
Sewage treatment plant	100 mg/l
Sporadic release	21 mg/l
1314-13-2 Zinc oxide	
Fresh water	0.0144 mg/l
Fresh water sediment	146.9 mg/kg dry weight
Marine water	0.0072 mg/l
Marine sediment	162.2 mg/kg dry weight
Soil	83.1 mg/kg
Sewage treatment plant	0.1 mg/l

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 7)

- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:**
Filter AX
Filter A
- **Hand protection**
Solvent resistant gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
Recommended thickness of the material: > 0,12 mm
Butyl rubber, BR
Nitrile rubber, NBR
Recommended thickness of the material: > 0,7 mm

- **Penetration time of glove material**
For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).
For the mixture of chemicals mentioned below the penetration time has to be at least 120 minutes (Permeation according to EN 374 Part 3: Level 4).

- **Eye/face protection**



Tightly sealed goggles

Goggles recommended during refilling

- **Body protection:**
Use protective suit.
Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **General Information**
- **Physical state** Fluid
- **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 55.8-56.6 °C
- **Flammability** Highly flammable.

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 8)

<ul style="list-style-type: none"> · Lower and upper explosion limit · Lower: 1.8 Vol % · Upper: 11.5 Vol % · Flash point: -4 °C · Auto-ignition temperature: 260 °C · Decomposition temperature: Not determined. · pH: Not determined. · Viscosity: · Kinematic viscosity: Not determined. · Dynamic at 20 °C: 1000 mPas · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value): Not determined. · Vapour pressure at 20 °C: 105 hPa · Vapour pressure at 50 °C: 360 hPa · Density and/or relative density · Density at 20 °C: 0.87 g/cm³ · Relative density: Not determined. · Vapour density: Not determined. 	
<ul style="list-style-type: none"> · 9.2 Other information <p>All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.</p> <ul style="list-style-type: none"> · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Solvent content: · Organic solvents: 80.4 % · Water: 0.1 % · Solids content: 19.5 % · Change in condition · Evaporation rate: Not determined. 	
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives: Void · Flammable gases: Void · Aerosols: Void · Oxidising gases: Void · Gases under pressure: Void · Flammable liquids: Highly flammable liquid and vapour. · Flammable solids: Void · Self-reactive substances and mixtures: Void · Pyrophoric liquids: Void · Pyrophoric solids: Void 	

(Contd. on page 10)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 9)

· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

78-93-3 Butanone

Oral	LD50	>2193 mg/kg (rat)
Dermal	LD50	>8050 mg/kg (rat)

141-78-6 Ethyl acetate

Oral	LD50	4934 mg/kg (rabbit)
Dermal	LD50	>20000 mg/kg (rabbit)
Inhalative	LC50/4 h	29.3 mg/l (rat)

108-87-2 Methylcyclohexane

Oral	LD50	4000-4500 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

67-64-1 Acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)

25085-50-1 p-tert-butylphenol formaldehyde resin

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

(Contd. on page 11)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 10)

1309-48-4 Magnesium oxide

Oral	LD50	3870 mg/kg
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8050-09-7 Rosin

Oral	LD50	2800 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

1314-13-2 Zinc oxide

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**
Not applicable.
- 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.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitisation** Not applicable.
- **Repeated dose toxicity** Not applicable.
- **11.2 Information on other hazards**

· Endocrine disrupting properties

78-93-3	Butanone	List II
98-54-4	4-tert-butylphenol	List I; II

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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 12)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

(Contd. of page 11)

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/ADN, IMDG, IATA** UN1133

· **14.2 UN proper shipping name**

· **ADR/ADN** 1133 ADHESIVES
· **IMDG, IATA** ADHESIVES

· **14.3 Transport hazard class(es)**

· **ADR/ADN**



· **Class** 3 (F1) Flammable liquids.
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids.
· **Label** 3

· **14.4 Packing group**

· **ADR/ADN, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Warning: Flammable liquids.
· **Hazard identification number (Kemler code):** -
· **EMS Number:** F-E,S-D

(Contd. on page 13)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 12)

· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· ADR/ADN	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	For substances with class 3 according to IMDG-Code chapter 2.3.2.2 packing group is classified in packing group III, as viscosity is in accordance with requirements (flow time t > 100s).
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Regulation (EC) No 273/2004 on drug precursors

78-93-3	Butanone	3
67-64-1	Acetone	3

(Contd. on page 14)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

(Contd. of page 13)

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3	Butanone	3
67-64-1	Acetone	3

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Flammable liquids	Bridging principles
Skin corrosion/irritation Serious eye damage/irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** PSRA

· **Contact:** PSRA

· **Date of previous version:** 31.05.2021

· **Version number of previous version:** 37

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Contd. on page 15)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2024

Version number 38 (replaces version 37)

Revision: 24.07.2024

Trade name: GRF BISON/CONTACT TIX TI 750ML*6 L221

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

(Contd. of page 14)

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