



SAFETY DATA SHEET CHILL GEL
Code: TRFIRE/100 – TRFIRE/300

Material safety data sheet according regulation (EU) 2015/830
Version 2 – Date: 18th September, 2019 (replaces version 1 – 04/2014)

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

1.1 Product identifier

Commercial name	Chill Gel
Our code	TRFIRE/100 – TRFIRE/300

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

Industrial sector	Refrigeration, Air-Conditioning and Automotive
Relevant identified uses	Heatsink for welding, thermal protector
Application	Industrial and professional

1.3 Details of the supplier of the safety data sheet



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1.4 Emergency telephone number

Mariel Srl	+39 0322 838319	Mon/Fri: 8.30-12.30 / 13.30-17.30
CAV-CNIT Anti-Poison (toxicological) National Information Centre	+39 0382 24444	Hours: 24 h / 24 h

2. Hazards identification

Classification according to Regulation (EC) 1272/2008 (CLP)	Not classified
Classification according to Directives 67/548/CEE and 1999/45/CE (including amendments)	Not classified

2.2 Elements of the label

Labelling according to Regulation (EC) 1272/2008 (CLP)	No labelling applicable
Labelling according to Directives 67/548/CEE and 1999/45/CE (including amendments)	Not applicable

2.3 Other hazards

The mixture does not contain any substance considered as vPvB or PBT.
The mixture does not contain any substance included in Annex XIII of the Regulation (EC) 1907/2006.

3. Composition/information on ingredients

3.2 Mixture

This mixture does not contain substances that pose a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008. This chemical mixture does not contain any substance classified as hazardous according to the Annex II of REACH. This chemical mixture does not contain any substance classified as hazardous according to the Directives 67/548/CEE.

For more information, see sections 8, 11, 12 and 16.

4. First aid measures

4.1 Description of first aid measures

Inhalation	Remove patient from exposure to fresh air. Administer oxygen if necessary. Obtain immediate medical attention.
Skin contact	In case of contact with skin, wash immediately with plenty of water. Remove contaminated clothing. If irritation or blistering occurs, call a physician.
Eye contact	Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Unlikely route of exposure. As this product is a gas, refer to the section "Inhalation". Do not induce vomiting without medical advice. Obtain immediate medical attention.

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

No known acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water jet spray, foam, CO₂, dry extinguisher.
No suitable extinguishing media High volume water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire the following substances may be developed: carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Specific methods Cool the containers with water jets to prevent product decomposition and the development of substances potentially dangerous for health. Always wear full fire protection equipment. Collect the extinguishing waters that must not be discharged into the drains. Dispose of contaminated water used for extinction and fire residue according to current regulations.

Other information

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. See section 10.

6. Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation / air.
Avoid contact with eyes and skin.

6.2 Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up

Soak up the product with inert absorbent material (sand, universal binding agent, diatomaceous earth, etc.).
Disposal of contaminated material must be carried out in accordance with the provisions of section 13.

6.4 Reference to other sections

For more information regarding individual protection or disposal, see sections 5, 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.
General hygiene measures for the handling of chemicals are applicable.
Do not smoke, drink or eat while handling the product.
Wash hands before and after handling the product.
Remove contaminated clothing and protective equipment before entering areas where food is consumed.

7.2 Conditions for safe storage, including any incompatibility

Store product closed and in original containers.
Store in a fresh, dry and well-ventilated place.
Keep away from heat sources, open flames, sparks and other sources of ignition.
Under all circumstances, prevent penetration into the soil.

7.3 Specific end use(s)

Heatsink for welding, thermal protector.

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8. Exposure controls/personal protection

8.1 Control parameters

TLV – Threshold Limit Value (occupational exposure limit values): no TLV – TWA

8.2 Exposure controls

Ensure good ventilation and/or local suction or general air extraction.

General hygiene measures for the handling of chemicals are applicable.

8.2.2 Individual protection measures, such as personal protective equipment

- a) **Eye/face protection** If the product is handled correctly, no individual protection equipment is necessary.
- b) **Skin protection**
- i) **Hand protection** If the product is handled correctly, no individual protection equipment is necessary.
 - ii) **Other** If the product is handled correctly, no individual protection equipment is necessary.
- c) **Respiratory protection** If the recommended technical measures are observed, no individual protection equipment is necessary.

8.2.3. Environmental exposure controls

Handling in accordance with good industrial hygiene and safety practice.

Prevent spillage or leakage of the product in watercourse or sewers.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	n.a.
Colour	Colourless
b) Odour	Odourless
d) pH	7
e) Melting point/freezing point	n.a.
f) Initial boiling point	101 °C
g) Flash point	n.a.
h) Evaporation rate	n.a.
j) Upper/lower flammability	n.a.
k) Vapour pressure	23,666
l) Vapour density	n.a.
m) Relative density	1 g/cm ³
n) Solubility (in the water)	Soluble
o) Partition coefficient: n-Octanol/water	n.a.
p) Auto-ignition temperature	n.a.
q) Decomposition temperature	n.a.
r) Viscosity	n.a.
s) Explosive properties	n.a.
t) Oxidising properties	n.a.

9.2 Other information

Pour point	n.a.
Cinematic viscosity	n.a.
VOC content	0 % (0 g/l)

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

Stable under normal handling and storage conditions.

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10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid

Avoid intense heat.

Avoid any improper handling.

10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic materials.

10.6 Hazardous decomposition products

No decomposition if used for the intended uses.

11. Toxicological information

11.1 Information on toxicological effects

- | | |
|--------------------------------------|--|
| a) Acute toxicity | Does not meet the classification criteria for this hazard class. |
| b) Skin corrosion/irritation | Does not meet the classification criteria for this hazard class. |
| c) Serious eye damage/irritation | Does not meet the classification criteria for this hazard class. |
| d) Respiratory or skin sensitisation | Does not meet the classification criteria for this hazard class. |
| e) Germ cell mutagenicity | Does not meet the classification criteria for this hazard class. |
| f) Carcinogenicity | Does not meet the classification criteria for this hazard class. |
| g) Reproductive toxicity | Does not meet the classification criteria for this hazard class. |
| h) STOT-single exposure | Does not meet the classification criteria for this hazard class. |
| i) STOT-repeated exposure | Does not meet the classification criteria for this hazard class. |
| j) Aspiration hazard | Does not meet the classification criteria for this hazard class. |

For more information of the toxicological effects, see section 2 and 8.

12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

No information is available about biodegradability of the substances present.

No information is available about persistence and degradability of the product.

12.3 Potential of bioaccumulation

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility soil

No information available.

The product must not be allowed to go into sewers and/or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

No information is available about other adverse effects for the environment.

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13. Disposal consideration

13.1 Waste treatment methods

Disposal of the product into sewers and/or waterways is forbidden.

Residues and empty containers must be handled and disposed of in accordance with the local/national laws in force.

The user is obliged to observe compliance with EC, state and/or local regulations regarding waste disposal.

14. Transport information

14.1 UN Number Not applicable

Transport by road (ADR)/ Railway transport (RID)

14.2 UN proper shipping name Not applicable

14.3 Danger classes related to transport Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

Transport by sea (IDMG)

14.2 UN proper shipping name Not applicable

14.3 Danger classes related to transport Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

Transport by air (IATA/ICAO)

14.2 UN proper shipping name Not applicable

14.3 Danger classes related to transport Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for users

Unless otherwise specified, general transport safety measures must be carried out.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code.

n.a.

15. Regulatory information

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

The product is not affected by the Regulation (EC) No 1005/2009 of 16 September 2009 on substances that deplete the ozone layer.

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export/import of dangerous chemicals.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) has been made for this product.

16. Other information

This Safety Data Sheet has been prepared in accordance with the current European Directive in force.

History	Version 2 by Mariel Srl	Version 1
	Revision date: 09/2019	Date: 04/2014

b) Abbreviations and acronyms

ADR	Accord Dangerous Route
CE / EC	European Community



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CLP	Classification, Labelling and Packaging
CSA	Chemical Safety Assessment
EU / UE	European Union
IATA	International Air Transport Association
IBC code	International Bulk Chemical code
ICAO	International Civil Aviation Organization
IMDG code	International Maritime Dangerous Goods code
MARPOL	MARitime POLLution
n.a	not applicable
n.d.a.	not data available
PBT	Persistent, Bioaccumulative, Toxic
REACH	Registration, Evaluation, Authorization and Restriction of chemicals
RID	Rail International Dangerous Goods transport
STOT-RE	Specific Target Organ Toxicity - repeated exposure
STOT-SE	Specific Target Organ Toxicity - single exposure
TLV	Threshold Limit Value
TLV-TWA	Threshold Limit Value - Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	very Persistent very Bioaccumulative

Notice of liability

This information should not constitute a guarantee for any specific product properties. This information are only a guidance for safe handling, use, processing, storage, transportation, disposal and release and are not to be considered a warranty or a quality specification.

The information contained in this safety data sheet are based on our current knowledge and EU and national laws; they describe the product only with regard to safety requirements. The conditions of the user are beyond our knowledge and control. The product should not be used for purpose other than those specified. It is always the responsibility of the user to take all the necessary measures to comply with the requirements of current legislation. The information contained in this form should not considered as a guarantee of its properties.
