

TF-90 Fast Drying Cleaning Solvent

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	TF-90 Fast Drying Cleaning Solvent.
Trade Name	TF-90 Fast Drying Cleaning Solvent.
Part No.	1848
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.

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

Identified use(s)	Fast drying cleaning and degreaser for metal components.
Uses advised against	Do not mix with other chemicals.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification

Telephone

Fax

E-Mail (competent person)

1.4 Emergency telephone number

Emergency Phone No.

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)

Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2; Causes skin irritation.
STOT SE 3; May cause drowsiness or dizziness.
Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.

2.2 Label elements

Product Name

Hazard pictogram(s)



GHS02



GHS07



GHS09

Signal word(s)

Danger.

Hazard statement(s)

H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.



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Precautionary statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P261: Avoid breathing vapours. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep out of reach of children.
Additional Information	
2.3 Other hazards	None.
2.4 Additional Information	For full text of H/P phrases see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Naphtha (petroleum), hydrodesulfurized light, dearomatized	40 - 60	92045-53-9	295-434-2	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Skin Irrit. 2; H315, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, GHS09, Aquatic Chronic 2; H411
Butane	30 - 40	106-97-8	203-448-7	None assigned	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Propan-2-ol	2 - 5	67-63-0	200-661-7	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336

3.2 Additional Information

For full text of H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.



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Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. If symptoms persist, obtain medical attention.
Ingestion	Unlikely route of exposure.
4.2 Most important symptoms and effects, both acute and delayed	Causes skin irritation. Vapours may cause drowsiness and dizziness.
4.3 Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Extremely flammable aerosol. Pressurised container: May burst if heated.

5.1 Extinguishing Media	Carbon dioxide.
Suitable Extinguishing Media	None known.
Unsuitable Extinguishing Media	
5.2 Special hazards arising from the substance or mixture	Heating may cause pressure rise with risk of bursting. This product may give rise to hazardous fumes in a fire.
5.3 Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep fire exposed containers cool by spraying with water.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures	Eliminate sources of ignition. Ensure adequate ventilation. Stop leak if safe to do so. Avoid breathing vapours. Wear protective gloves.
6.2 Environmental precautions	Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for containment and cleaning up	Place leaking cans in a bucket or pail to minimise product contamination of surfaces. Collect spillage. Adsorb spillages onto sand. Transfer to a container for disposal. Do NOT wash away into sewer. Containers must not be punctured or destroyed by burning, even when empty.
6.4 Reference to other sections	See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from: Electrostatic charge. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Ensure adequate ventilation. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.
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- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage Temperature
Storage Life
Incompatible materials
- 7.3 Specific end use(s)**
- Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.
Industrial product for professional users. Locked storage regulation does not apply to this product.
Do not expose to temperatures exceeding 50°C/ 122°F.
Stable under normal conditions.
Oxidizing agent, Reducing agent.
Fast drying cleaning and degreaser for metal components.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Propan-2-ol	67-63-0	400	999	500	1250	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection



Not normally required. Wear eye protection with side protection (EN166).

Skin protection (Hand protection/Other)



Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Aerosol.

Colour

Colourless.

Odour

Characteristic.

Odour Threshold

Not available.

pH

Not applicable.



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Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	-60°C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Aerosol 1; Extremely flammable aerosol.
Upper/lower flammability or explosive limits	0.6 - 8.5 Vol-%
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.69
Solubility(ies)	~20% @ 20°C
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	The product is not self-igniting.
Ignition temperature	240°C
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Pressurised container: May burst if heated.
Oxidising properties	Not oxidising.
9.2 Other information	None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Reacts violently with - Strong oxidising agents.
10.4 Conditions to avoid	Do not mix with other chemicals. Heat and direct sunlight.
10.5 Incompatible materials	Oxidizing agent, Reducing agent.
10.6 Hazardous Decomposition Product(s)	This product may give rise to hazardous fumes in a fire.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1.1 Mixtures	
Acute toxicity	STOT SE 3; May cause drowsiness or dizziness.
Inhalation	Skin Irrit. 2; Causes skin irritation.
Irritation	
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	None anticipated.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	The product is biodegradable.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	Slightly soluble in: Water. The product is predicted to have low mobility in soil.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None.



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13. SECTION 13: DISPOSAL CONSIDERATIONS

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|-------------------------------------|--|
| 13.1 Waste treatment methods | Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. |
| 13.2 Additional Information | Disposal should be in accordance with local, state or national legislation. Do not allow into any sewer on the ground, or into any body of water. |

14. SECTION 14: TRANSPORT INFORMATION

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|---|----------------------|
| 14.1 UN number | UN 1950 |
| 14.2 UN proper shipping name | AEROSOLS. |
| ADR/RID/ADN/IMDG | AEROSOLS, FLAMMABLE. |
| ICAO/IATA | |
| 14.3 Transport hazard class(es) | |
| ADR/RID/ADN | 2 |
| IMDG/ICAO/IATA | 2.1 |
| 14.4 Packing Group | None. |
| 14.5 Environmental hazards | Marine Pollutant. |
| 14.6 Special precautions for user | None. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| 14.8 Additional Information | |
| IMDG Code | EmS: F-D, S-U |
| Tunnel Restriction Code | D |

15. SECTION 15: REGULATORY INFORMATION

- | | |
|---|---|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 EU regulations | |
| Authorisations and/or restrictions on use | |
| Candidate List of Substances of Very High Concern for Authorisation | All chemicals are not listed. |
| REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION | All chemicals are not listed. |
| REACH: ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES | All chemicals are not listed. |
| Community Rolling Action Plan (CoRAP); Draft 29/02/2012 | All chemicals are not listed. |
| 15.1.2 National regulations | |
| Wassergefährdungsklasse (Germany) | Water hazard class: WGK 3 (Severe hazard to waters) |
| 15.2 Chemical Safety Assessment | Not available. |



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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
Aerosol 1	Aerosol Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable Liquid Category 2
Eye Irrit. 2	Serious eye damage/irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment Category 2
Press. Gas	Gases under pressure

Hazard statement(s) and Precautionary statement(s)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.