TF-90 Fast Dry Cleaning Solvent & Degreaser

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 453/2010

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

1.1 Product identifier

Product Name	TF-90 Fast Dry Cleaning Solvent & Degreaser.
Trade Name	TF-90 Fast Dry Cleaning Solvent & Degreaser.
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 from metal components.
Uses advised against	Do not mix with other chemicals.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification	Action Can Ltd., Dixon Close, Old Boston Trading Estate, Haydock, St. Helens, Merseyside. Wa11 9SF.
Telephone	01942 713667
Fax	01942 716235
E-Mail (competent person)	info@actioncan.com

1.4 Emergency telephone number

Emergency Phone No.	01942 713667 (Mon – Fri: 9am to 5pm)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive 67/548/EEC & Directive 1999/45/EC

F+; Extremely flammable.
Xi; Irritating to skin.
N; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

According to Directive 67/548/EEC & Directive 1999/45/EC

Product Name: TF-90 Fast Dry Cleaning Solvent & Degreaser.

Hazard Symbol



F+ Xi N

Risk Phrases

R12: Extremely flammable.
R38: Irritating to skin.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2: Keep out of the reach of children.
S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe vapour/spray.
S51: Use only in well-ventilated areas.

	Additional Information	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
2.3	**Other hazards**	None.
2.4	**Additional Information**	None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Naphtha (petroleum), hydrodesulfurized light, dearomatized	40 - 60	92045-53-9	295-434-2	None assigned	F; R11, Xi; R38, N; R51/53
Butane	30 - 40	106-97-8	203-448-7	None assigned	F+; R12
Propan-2-ol	2 - 5	67-63-0	200-661-7	None assigned	F; R11, Xi; R36, R67

3.2 Additional Information

For full text of R phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1	**Description of first aid measures**	
	Inhalation	Move person to fresh air. If symptoms persist, obtain medical attention.
	Skin Contact	After contact with skin, wash immediately with plenty of soap and water. If symptoms persist, obtain medical attention.
	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**	Unlikely to be required but if necessary treat symptomatically.
4.3	**Indication of any immediate medical attention and special treatment needed**	No special requirements.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	Carbon dioxide.
	Unsuitable Extinguishing Media	None known.
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

6.1	**Personal precautions, protective equipment and emergency procedures**	Eliminate sources of ignition. Stop leak if safe to do so. Ensure adequate ventilation. Wear suitable 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. Adsorb spillages onto sand. Do NOT wash away into sewer.
6.4	**Reference to other sections**	See Also Section 7, 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from: Electrostatic charge. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Wash hands before breaks and after work.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep cool. Protect from sunlight. Store in a dry place.
	Storage Temperature	Do not expose to temperatures exceeding 50°C/ 122°F.
	Storage Life	Stable under normal conditions.
	Incompatible materials	Oxidizing agent, Reducing agent.
7.3	**Specific end use(s)**	Fast drying cleaning and degreaser from 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/m³)	STEL (ppm)	STEL (mg/m³)	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. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
		
	Respiratory protection	Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.
		
	Thermal hazards	Not applicable.
8.2.3	**Environmental Exposure Controls**	Do not allow to enter drains, sewers or watercourses.

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 determined.
	pH	Not determined.
	Melting Point/Freezing Point	Not determined.
	Initial boiling point and boiling range	Not determined.
	Flash point	-60°C
	Evaporation rate	Not determined.
	Flammability (solid, gas)	Extremely flammable.
	Upper/lower flammability or explosive limits	0.6 - 8.5 Vol-%
	Vapour pressure	Not determined.
	Vapour density	Not determined.
	Relative density	0.69
	Solubility(ies)	~20% @ 20°C
	Partition coefficient: n-octanol/water	Not determined.
	Auto-ignition temperature	The product is not self-igniting.
	Ignition temperature	240°C
	Decomposition Temperature	Not determined.
	Viscosity	Not available.
	Explosive properties	Contains gas under pressure; may explode 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.
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	Low acute toxicity.
	Irritation	Irritating to skin.
	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**	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.2	**Persistence and degradability**	The product is poorly biodegradable.
12.3	**Bioaccumulative potential**	No information available.
12.4	**Mobility in soil**	Slightly soluble in: Water. Floats on water.
12.5	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Other adverse effects**	Water hazard class: WGK 3 (Severe hazard to waters)

13. SECTION 13: DISPOSAL CONSIDERATIONS

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

14.1	**UN number**	UN 1950
14.2	**UN proper shipping name**	
	ADR/RID/ADN/IMDG	AEROSOLS.
	ICAO/IATA	AEROSOLS, FLAMMABLE.
14.3	**Transport hazard class(es)**	
	ADR/RID/ADN	2
	IMDG/ICAO/IATA	2.1
14.4	**Packing Group**	None.
14.5	**Environmental hazards**	Not classified as a 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**	
14.8.1	IMDG Code	EmS: F-D, S-U
14.8.2	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**	None known.
15.2	**Chemical Safety Assessment**	Not available.

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)
F+	Extremely flammable
N	Dangerous for the environment.
Xi	Irritant

Risk Phrases

R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.