

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830Date of issue: 07-03-16Revision date: 29-11-17Supersedes: 07-08-17 Version: 2.0

BP 50050 MOUVAUX

59589 BONDUES Cedex - France

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SECTION 1: Identificat	tion of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: TF DRY
Product code	: 1812 # 732181R3
Vaporizer	: Aerosol
1.2. Relevant identified	d uses of the substance or mixture and uses advised against
1.2.1. Relevant identified	d uses
Main use category	: Professional use
Industrial/Professional use sp	ec : Industrial
Use of the substance/mixture	: Release agent Lubricants and additives
1.2.2. Uses advised agai	inst
No additional information ava	ilable
1.3. Details of the supp	plier of the safety data sheet
Distributor SADAPS BARDAHL CORPO	Supplier RATION SADAPS BARDAHL CORPORATION

SADAPS BARDAHL CORPORATION BP 50050 MOUVAUX 59589 BONDUES Cedex - France T 03.10 38 38 38 - F 03.51 08 90 51 industrie@bardahlfrance.com - www.bardahlindustrie.com

1.4. Emergency telephone number

Emergency number

+33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1	H222;H229
Serious eye damage/eye irritation, Category	H319
2 Hazardous to the aquatic environment —	H412
Chronic Hazard, Category 3	
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



Signal word (CLP)

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Hazard statements (CLP) : H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects. Precautionary statements (CLP) P102 - Keep out of reach of children. • P260 - Do not breathe gas, spray. P271 - Use only outdoors or in a well-ventilated area. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P501 - Dispose of contents/container to a hazardous or special waste collection point 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. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. : Use as per instructions and specifically for this purpose. Extra phrases

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients					
3.1.	Substances				
Not app	Not applicable				

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethoxymethane substance with national workplace exposure limit(s) (DE, FR)	(CAS-No.) 109-87-5 (EC-No.) 203-714-2 (REACH-no) 01-2119664781-31	25 - 50	Flam. Liq. 2, H225
butane (<0.1% (203-450-8)) substance with national workplace exposure limit(s) (DE, FR, GB) (Note C)(Note U)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	25 - 50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
Hydrocarbons, C6, isoalkanes, <5% n-hexane	(EC-No.) 931-254-9 (REACH-no) 01-2119484651-34	5 - 10	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
titanium tetrabutanolate	(CAS-No.) 5593-70-4 (EC-No.) 227-006-8 (REACH-no) 01-2119967423-33	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U : When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: Inhalation of vapour can cause breathing difficulties.
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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Symptoms/effects after ingestion	: Ingestion unlikely.
4.3. Indication of any immediate medica	Il attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Prevent liquid from entering sewers, watercourses, underground or low areas.
SECTION 6: Accidental release mea	SII76S
	ures uipment and emergency procedures
General measures	 Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.
6.1.1. For non-emergency personnel No additional information available	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
	terial. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public
6.3. Methods and material for containmo	ent and cleaning up
For containment	: Recover the product with absorbent material.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.
6.4. Reference to other sections	
	sure controls/personal protection". For disposal of solid materials or residues refer to section 13 :
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Keep out of frost.
Heat and ignition sources	: Keep away from naked flames/heat. Keep away from ignition sources. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Storage area	: Store in a well-ventilated place. Store in a dry place.
Special rules on packaging	: Store in original container.
7.3. Specific end use(s)	
No additional information available	

No additional informa	tion available
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SECTION 8: Exposure controls/personal protection				
8.1.	Control parameters			
	-			

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dimethoxymethane (109-87-5)			
France	VME (mg/m ³)	3110 mg/m ³	
France	VME (ppm)	1000 ppm	
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	3200 mg/m ³	
Switzerland	MAK (mg/m³)	3100 mg/m ³	
Switzerland	MAK (ppm)	1000 ppm	
Switzerland	KZGW (mg/m³)	6200 mg/m³	
Switzerland	KZGW (ppm)	2000 ppm	
butane (<0.1% (203-450-8)) (106-97-8)		
France	VME (mg/m ³)	1900 mg/m³	
France	VME (ppm)	800 ppm	
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	2400 mg/m ³	
United Kingdom	WEL TWA (ppm)	600 ppm	
United Kingdom	WEL STEL (ppm)	750 ppm	
Switzerland	MAK (mg/m³)	1900 mg/m³	
Switzerland	MAK (ppm)	800 ppm	
Switzerland	KZGW (mg/m ³)	7600 mg/m ³	
Switzerland	KZGW (ppm)	3200 ppm	
propane (74-98-6)			
USA - ACGIH	ACGIH TWA (mg/m ³)	1800 mg/m³	
Hydrocarbons, C6, isoalkanes, <5% n-hexane			
France	VME (mg/m ³)	1000 mg/m ³	
France	VLE (mg/m ³)	1500 mg/m ³	

8.2. Exposure controls

Hand protection:

Gloves. EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

Device	Filter type	Condition	Standard
Breathing equipment	Filter AX (brown)		



SECTION 9: Physical and chemical properties

osition temperature	: No data available	
ition temperature	: No data available	
int	: <0°C	
oint	: No data available	
point	: No data available	
point	: No data available	
evaporation rate (butylacetate=1)	: No data available	
	: No data available	
reshold	: No data available	
	: characteristic.	
	: white.	
state	: Liquid	
Information on basic physical and	chemical properties	
	state reshold evaporation rate (butylacetate=1) point point oint int tion temperature	 white. characteristic. reshold No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0,86
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
0.0 Others information	

9.2. Other information VOC content

: 682 g/l (95%)

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated.

10.3.	Possibility	of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

Strong oxidizers. Acids. Bases.

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information			
11.1. Information on toxicological e	ffects		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
propane (74-98-6)			
LD50 oral rat	>= 5000 mg/kg		
LD50 dermal rabbit	>= 5000 mg/kg		
LC50 inhalation rat (mg/l)	>= 50 mg/l/4h		
Hydrocarbons, C6, isoalkanes, <5% n	-hexane		
LD50 oral rat	> 1650 mg/kg		
LD50 dermal rabbit	> 3360 mg/kg 4h		
LC50 inhalation rat (mg/l)	259,354 g/m ³		
titanium tetrabutanolate (5593-70-4)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	5300 mg/kg		
LC50 inhalation rat (mg/l)	20100 mg/l		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
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Aspiration hazard	Not classified
TF DRY	
Vaporizer	Aerosol

SECTION 12: Ecological information	
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12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	
12.5. Results of PBT and vPvB assessme No additional information available	
no additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Collect all waste in suitable and labelled containers and dispose according to local legislation. Dispose used or damaged aerosol cans at permitted disposal sites.
Additional information	: Empty the packaging completely prior to disposal. Do not re-use empty containers.
Ecology - waste materials	: Do not discharge the product into the environment.
European List of Waste (LoW) code	: 14 06 00 - waste organic solvents, refrigerants and foam/aerosol propellants

: 14 06 00 - waste organic solvents, refrigerants and foam/aerosol propellants

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	RID	
14.1. UN number				
1950	1950	1950	1950	
14.2. UN proper shipping nam	e			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	
Transport document description				
UN 1950 AEROSOLS (CONTAINS ; butane (<0.1% (203-450-8)) ; propane), 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	
14.3. Transport hazard class(e	es)			
2.1	2.1	2.1	2.1	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary information available				

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14.6. Special precautions for user

•		
- Over	and	transport

- Overland transport		
Classification code (ADR)	:	5F
Special provisions (ADR)	:	190, 327, 344, 625
Limited quantities (ADR)	:	11
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P207
Special packing provisions (ADR)		PP87, RR6, L2
Mixed packing provisions (ADR)		MP9
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V14
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV9, CV12
Special provisions for carriage - Operation (ADR)	:	S2
Tunnel restriction code (ADR)	:	D
- Transport by sea		
Special provisions (IMDG)	:	63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	:	SP277
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P207, LP02
Special packing provisions (IMDG)	:	PP87, L2
EmS-No. (Fire)	:	F-D
EmS-No. (Spillage)	:	S-U
Stowage category (IMDG)	:	None
Stowage and handling (IMDG)	:	SW1, SW22
Segregation (IMDG)	:	SG69
A in the end of		
- Air transport		F0
PCA Excepted quantities (IATA)		EO
PCA Limited quantities (IATA)		Y203
PCA limited quantity max net quantity (IATA)		30kgG
PCA packing instructions (IATA)		203
PCA max net quantity (IATA)		75kg
CAO packing instructions (IATA)		203
CAO max net quantity (IATA)		150kg
Special provisions (IATA)	:	A145, A167, A802
ERG code (IATA)	:	10L
- Rail transport		
Special provisions (RID)	:	190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P207, LP200
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW12
Colis express (express parcels) (RID) : CE2		
Hazard identification number (RID)	:	23
14.7 Transport in bulk according to Appen	v II	of Marpol and the IBC Cod

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory informatio	SECTION 15: Regulatory information			
15.1. Safety, health and environmental re	Safety, health and environmental regulations/legislation specific for the substance or mixture			
15.1.1. EU-Regulations	. EU-Regulations			
Contains no REACH substances with Annex XV	/II restrictions			
Contains no substance on the REACH candidat	e list			
Contains no REACH Annex XIV substances				
VOC content	: 682 g/l (95%)			
15.1.2. National regulations				
France				
Occupational diseases	: RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel			
Cormony				
Germany VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS,			
	Annex 4)			
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)			
Netherlands				
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed			
SZW-lijst van mutagene stoffen	: None of the components are listed			
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed			
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed			
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed			
Denmark				
Class for fire hazard	: Add boilingpoint			
Store unit	: Add boilingpoint			
Classification remarks	: Add boilingpoint; Emergency management guidelines for the storage of flammable liquids must be followed			
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product			
15.2. Chemical safety assessment				
No additional information available				

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

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H318	Causes serious eye damage
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product