

Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

GF Dytex Solvent

SDS No. : 41861 V00

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Revision: 17.03.2016 printing date: 4/1/2016

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

1.1. Product identifier GF Dytex Solvent Contains: Dichloromethane

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use: Cleaner for pipe bondings

1.3. Details of the supplier of the safety data sheet

Georg Fischer Piping Systems Ltd Ebnatstrasse 111 CH - 8201 Schaffhausen - Switzerland Phone: +41 52 631 11 11

1.4. Emergency telephone number

24 Hours Emergency Tel: Swiss Toxicological Information Centre (7 days) +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

SECTION 2: Haz	ards id	lentifica	tion
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2.1. Classification of the substance or mixture

Classification (CLP):	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Carcinogenicity	Category 2
H351 Suspected of causing cancer.	

2.2. Label elements Label elements (CLP): Hazard pictogram:

> Signal word: Hazard statement:

Precautionary statement: Prevention

Precautionary statement: Response



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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
P201 Obtain special instructions before use.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P261 Avoid breathing mist/vapours.
P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P311 If exposed or concerned: Call a POISON CENTER/doctor.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level. Pregnant women should absolutely avoid inhalation and skin contact.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Cleaner

Base substances of preparation:

Dichloromethane

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Dichloromethane 75-09-2	200-838-9 01-2119480404-41	> 90 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H336 Carc. 2
			H351

Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

Causes serious eye irritation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

Vapors may cause drowsiness and dizziness.

$\label{eq:constraint} \textbf{4.3. Indication of any immediate medical attention and special treatment needed}$

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet.

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released. Hydrogen chloride.

5.3. Advice for firefighters

Wear protective equipment. Wear self-contained breathing apparatus. Additional information: Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective equipment. Danger of slipping on spilled product. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Hygiene measures:

Do not eat, drink or smoke while working. Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation. Close the container carefully after use and store it at a good ventilated place. Store protected from heat influence. Temperatures between + 5 °C and + 30 °C. Keep only in original container.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with highly alkaline products.

7.3. Specific end use(s)

Cleaner for pipe bondings.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Occupational Exposure Limits Valid for

Germany

Ingredient [Regulated substance]	ррт	mg/m ³		Short term exposure limit category / Remarks	Regulatory list
Dichloromethane 75-09-2	75	260	Exposure limit(s):	4	TRGS 900
Dichloromethane 75-09-2			1	Category II: substances with a resorptive effect.	TRGS 900

Name on list	Environmental Compartment	Environmental Exposure Value Compartment period						Remarks
			mg/l	ppm	mg	/kg	others	
Dichloromethane 75-09-2	aqua (freshwater)						0,54 mg/L	
Dichloromethane 75-09-2	aqua (marine water)						0,194 mg/L	
Dichloromethane 75-09-2	aqua (intermittent releases)						0,27 mg/L	
Dichloromethane 75-09-2	sediment (freshwater)				4,4	7 mg/kg		
Dichloromethane 75-09-2	sediment (marine water)				1,6	1 mg/kg		
Dichloromethane 75-09-2	soil				0,5 mg			
Dichloromethane 75-09-2	sewage treatment plant (STP)					-	26 mg/L	
Derived No-Effect Leve	el (DNEL):							
Name on list	Application Area	Route of Exposure	Health Effec	t	Exposure Time	Valu	e	Remarks
Dichloromethane 75-09-2	Workers	Inhalation	Acute/short to exposure - systemic effe		353		ng/m3	
Dichloromethane 75-09-2	Workers	dermal	Long term exposure - systemic effe	cts		2395	mg/kg bw/day	
Dichloromethane 75-09-2	Workers	dermal	Long term exposure - lo effects			88,3	mg/cm2	
Dichloromethane 75-09-2	Workers	oral	Long term exposure - lo effects	cal	0,06 r		mg/kg bw/day	
Dichloromethane 75-09-2	general population	Inhalation	Acute/short to exposure - systemic effe			706 r	ng/m3	
Dichloromethane	general population	dermal	Long term exposure -			4750	mg/kg bw/day	
75-09-2	population		systemic effe	cts				

Ingredient [Regulated	Parameters	Biological	Sampling time	Conc.	Basis of biol.	Remark	Additional
substance]		specimen			exposure index		Information
Dichloromethane	dichlorometh	Blood	Sampling time: End of	1 mg/l	DE BAT		
75-09-2	ane		shift.	_			
Dichloromethane	Co-Hb	Blood	Sampling time: End of	5 %	DE BAT		
75-09-2			shift.				

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Filter : AX (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from chloroprene rubber are recommended according to EN 374. material thickness > 0.6 mm

Perforation time > 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquidlow viscosity colourless Odor characteristic Odour threshold pН Initial boiling point 41 °C (105.8 °F) Flash point Decomposition temperature Vapour pressure Density 1,32 g/cm3 (20 °C (68 °F)) Bulk density Viscosity Viscosity (kinematic) Explosive properties Solubility (qualitative) Largely insoluble. (20 °C (68 °F) Solvent: Water Solidification temperature Melting point Flammability Auto-ignition temperature Explosive limits 13 %(V) lower upper 22 %(V) Partition coefficient: n-octanol/water Evaporation rate Vapor density Oxidising properties

9.2. Other information

No data available / Not applicable

No data available / Not applicable No data available / Not applicable No data available / Not applicable No data available / Not applicable No data available / Not applicable

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong bases. Reaction with metals.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity.

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

May cause damage to organs through prolonged or repeated exposure.

Inhalative toxicity:

May cause respiratory irritation.

Vapors may cause drowsiness and dizziness.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

The toxicity of the product is due to its narcotic effect after inhalation.

Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

OECD 405

Carcinogenicity:

Suspected of causing cancer.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Dichloromethane	LD50	2.120 mg/kg	oral		rat	
75-09-2						

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Dichloromethane	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
75-09-2						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method	
CAS-No.		time			
Dichloromethane	irritating	4 h	rabbit	OECD Guideline 404 (Acute	
75-09-2				Dermal Irritation / Corrosion)	
Serieus eve demoge/invitation:					

Serious eye damage/irritation:						
Hazardous components	Result	Exposure	Species	Method		
CAS-No.		time				
Dichloromethane	irritating		rabbit			
75-09-2						

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Dichloromethane	not sensitising	Mouse	mouse	OECD Guideline 429 (Skin
75-09-2	-	local		Sensitisation: Local Lymph
		lymphnod		Node Assay)

				e assay (LLNA)				
Germ cell mutagenicit Hazardous components CAS-No.	y: Result	Type of study / Route of administration	Metabolic activation Exposure	/	Species	5 I	Meth	od
Dichloromethane 75-09-2	positive	bacterial reverse mutation assay (e.g Ames test)	with and w	ithout		(D Guideline 471 erial Reverse Mutation y)
Carcinogenicity:								
Hazardous components CAS-No.	Result	Species	Sex	Exposu timeFro y of tre	equenc	Route of application		Method
Dichloromethane 75-09-2	carcinogenic	rat	male/female	102 w 6 h/d, 5	d/w	inhalation vapour	1:	OECD Guideline 451 (Carcinogenicity Studies)

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

12.1. Toxicity

100 1	Toxicity Study	time		
	Study			
193 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline
				203 (Fish, Acute
				Toxicity Test)
220 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
				202 (Daphnia sp.
				Acute
				Immobilisation
				Test)
> 660 mg/l	Algae	96 h	Selenastrum capricornutum	OECD Guideline
-	-		(new name: Pseudokirchnerella	201 (Alga, Growth
			subcapitata)	Inhibition Test)
> 500 mg/l	Bacteria	16 h	-	
-				
	220 mg/l > 660 mg/l	220 mg/l Daphnia > 660 mg/l Algae	220 mg/l Daphnia 48 h > 660 mg/l Algae 96 h	220 mg/l Daphnia 48 h Daphnia magna > 660 mg/l Algae 96 h Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)

12.2. Persistence and degradability

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Dichloromethane	inherently biodegradable	aerobic	5 - 26 %	OECD Guideline 301 C (Ready
75-09-2				Biodegradability: Modified MITI
				Test (I))

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	0	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Dichloromethane 75-09-2	1,25					

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Dichloromethane 75-09-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.	No data available.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages: Use packages for recycling only when totally empty.

Waste code

14 06 03 Other solvents and solvent mixtures.

SECTION 14: Transport information

14.1.	UN number						
17.1.	ADR	1593					
	RID	1593					
	ADN	1593					
	IMDG	1593					
	IATA	1593					
	11111	1375					
14.2.	UN proper shi	roper shipping name					
	ADR	DICHLOROMETHANE					
	RID	DICHLOROMETHANE					
	ADN	DICHLOROMETHANE					
	IMDG	DICHLOROMETHANE					
	IATA	Dichloromethane					
14.3.	Transport haza	Transport hazard class(es)					
	ADR	6.1					
	RID	6.1					
	ADN	6.1					
	IMDG	6.1					
	IATA	6.1					
14.4.	Packing group						
	ADR	III					
	RID	III					
	ADN	III					
	IMDG	III					
	IATA	III					
14.5.	Environmental	hazards					
	ADR	not applicable					
	RID	not applicable					
	ADN	not applicable					
	IMDG	not applicable					
	IATA	not applicable					
14.6.	Special precaut						
	ADR	not applicable					
		Tunnelcode: (E)					
	RID	not applicable					
	ADN	not applicable					
	IMDG	not applicable					
	IATA	not applicable					

14.7.

Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

SECTION 15: Regulatory information

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

VOC content 100,0 % (VOCV 814.018 VOC regulation CH)

List of ingredients according to Detergents regulation.

Dichloromethane

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK:

2, water-endangering product. (German VwVwS of May 17, 1999)Classification in conformity with the calculation method 6.1D This product is in scope of the German regulation

Storage class according to TRGS 510: General remarks (DE):

This product is in scope of the German regulation "ChemikalienVerbotsVerordnung"

SECTION 16: Other information

Further information:

The product is intended for industrial use.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):



Risk phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S21 When using do not smoke.

S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves.

S23 Do not breathe vapour.

S3/9/49 Keep only in the original container in a cool, well-ventilated place.

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

Contains:

Dichloromethane