Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**



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

1.1 Product identifier	
Product name	lloform CFX 6000
UFI:	1H03-C0EA-U001-63MH
Product code	468917-FR01
SDS #	468917
Product type	Liquid.

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

	Identified uses
	ergy open processes-Industrial ergy open processes-Professional
Use of the substance/ mixture	Metalworking fluid - neat. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
1.3 Details of the supplier of	of the safety data sheet
Supplier	Castrol Holdings Europe B.V., d'Arcyweg 76, 3198NA Europoort Rotterdam
	Castrol Germany GmbH, Überseeallee 1, 20457 Hamburg
	+49 (0) 800 863 73 70
E-mail address	MSDSadvice@bp.com
1.4 Emergency telephone n	umber
EMERGENCY	Carechem: +44 (0) 1235 239 670 (24/7)

EMERGENCY TELEPHONE NUMBER

SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition Mixture

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

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Eye Dam. 1, H318 Aquatic Chronic 3, H412

Date of previous issue

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements					
UFI:	1H03-C0EA-U001-63MH				
Hazard pictograms					
Signal word	Danger				
Hazard statements	H318 - Causes serious eye damage H412 - Harmful to aquatic life with lo		ng effects.		
Precautionary statements					
Prevention	P280 - Wear eye or face protection				
	P273 - Avoid release to the environ	ment.			
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# **SECTION 2: Hazards identification**

Response	P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a
	POISON CENTER or physician.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts
Supplemental label elements	Not applicable.
EU Regulation (EC) No. 1907/	<u>2006 (REACH)</u>
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requireme	<u>nts</u>
Containers to be fitted with child-resistant fastenings	Not applicable.
Tactile warning of danger	Not applicable.
2.3 Other hazards	
Results of PBT and vPvB assessment	Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	Defatting to the skin.

## **SECTION 3: Composition/information on ingredients**

Mixture

#### 3.2 Mixtures

Product definition

Fatty acid ester and additives

Specific Conc. Limits, M-factors and ATEs	Туре
	[1] [2]
	[1]
l	Limits, M-factors

See Section 16 for the full text of the H statements declared above.

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<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

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Eye contact	should be held away from the e	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician. Get medical attention immediately.			
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.				
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# SECTION 4: First aid measures

Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health	<u>effects</u>
Inhalation	May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
Ingestion	No known significant effects or critical hazards.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Eye contact	Causes serious eye damage.
Delayed and immediat	e effects as well as chronic effects from short and long-term exposure
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** Treatment should in general be symptomatic and directed to relieving any effects.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	Use foam or all-purpose dry chemical to extinguish.
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.
5.2 Special hazards arising from	n the substance or mixture
Hazards from the substance or mixture	Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) metal oxide/oxides phosphorus oxides sulphur oxides (SO, SO <sub>2</sub> , etc.)
5.3 Advice for firefighters	
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Do not breathe vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid contact of spilt material and runoff with soil and surface waterways. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.					
Advice on general occupational hygiene	Eating, drinking and smoking should be stored and processed. Wash thoroughl protective equipment before entering ea information on hygiene measures.	ý afte	er handling. R	emove col	ntaminated	clothing and
7.2 Conditions for safe storage, including any incompatibilities	Store between the following temperatur local regulations. Store in a dry, cool ar materials (see Section 10). Store locke container tightly closed and sealed until be carefully resealed and kept upright to containers designed for use with this pr appropriate containment to avoid enviro	nd we d up reac pre oduc	ell-ventilated ar Keep away fr ly for use. Cor vent leakage. t. Do not store	ea, away om heat a Itainers th Store and in unlabe	from incomp and direct su at have bee use only in	oatible Inlight. Keep In opened must equipment/
Not suitable	Prolonged exposure to elevated temperatu	re				
Germany - Storage code	10					
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# **SECTION 7: Handling and storage**

### 7.3 Specific end use(s) Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

## **SECTION 8: Exposure controls/personal protection**

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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

Product/ingredie	ent name	Exposure limit values
Phosphorodithioic acid, mixed	O,O-bis(2-ethylhexyl	DFG MAC-values list (Germany). [Zinc and its inorganic compounds]
and iso-Bu and pentyl) esters, :	zinc saits	TWA: 2 mg/m <sup>3</sup> 8 hours. Issued/Revised: 7/2013 Form: inhalable fraction PEAK: 4 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Issued/Revised: 7/2013 Form: inhalable fraction PEAK: 0.4 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Issued/Revised: 7/2013 Form: respirable fraction TWA: 0.1 mg/m <sup>3</sup> 8 hours. Issued/Revised: 7/2013 Form: respirable fraction
Recommended monitoring procedures	EN 689 (Workplace chemical agents for Standard EN 14042 for the assessment (Workplace atmospl measurement of che	e made to monitoring standards, such as the following: European Standard atmospheres - Guidance for the assessment of exposure by inhalation to comparison with limit values and measurement strategy) European (Workplace atmospheres - Guide for the application and use of procedures of exposure to chemical and biological agents) European Standard EN 482 heres - General requirements for the performance of procedures for the emical agents) Reference to national guidance documents for methods for hazardous substances will also be required.
Biological exposure indices		
Product/ingredient No exposure indices known.	name	Exposure indices
Derived No Effect Level No DNELs/DMELs available.		
Predicted No Effect Concentr No PNECs available	<u>ation</u>	
8.2 Exposure controls		
Appropriate engineering controls	concentrations belo All activities involvin exposures are adeq after other forms of Personal protective kept in good condition Your supplier of per appropriate standard The final choice of p	ntilation or other engineering controls to keep the relevant airborne w their respective occupational exposure limits. In chemicals should be assessed for their risks to health, to ensure uately controlled. Personal protective equipment should only be considered control measures (e.g. engineering controls) have been suitably evaluated. equipment should conform to appropriate standards, be suitable for use, be on and properly maintained. sonal protective equipment should be consulted for advice on selection and ds. For further information contact your national organisation for standards. protective equipment will depend upon a risk assessment. It is important to a of personal protective equipment are compatible.
Individual protection measure		
Hygiene measures	smoking and using t	ms and face thoroughly after handling chemical products, before eating, the lavatory and at the end of the working period. Ensure that eyewash showers are close to the workstation location.
Respiratory protection	For protection again to oil" (class R) or oil level of airborne cor disposable (P- or R- respirator equipped Where organic vapo particulate and orga The correct choice of conditions of work a	nt ventilation, wear suitable respiratory equipment. Ist metal working fluids, respiratory protection that is classified as "resistant il proof (class P) should be selected where appropriate. Depending on the ntaminants, an air-purifying, half-mask respirator (with HEPA filter) including series) (for oil mists less than 50mg/m3), or any powered, air-purifying with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3). Durs are a potential hazard during metalworking operations, a combination nic vapour filter may be necessary. of respiratory protection depends upon the chemicals being handled, the nd use, and the condition of the respiratory equipment. Safety procedures d for each intended application. Respiratory protection equipment should
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# **SECTION 8: Exposure controls/personal protection**

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	therefore be chosen in co of the working conditions.	nsultation with the s	supplier/manufacturer	and with a full	assessment
Eye/face protection	Chemical splash goggles.				
Skin protection Hand protection	General Information:				
	Because specific work en should be developed for e depends upon the chemic provide protection for only best chemically resistant of	ach intended applic als being handled, a limited time befo	cation. The correct ch and the conditions of re they must be disca	oice of protecti work and use. Irded and repla	ve gloves Most gloves ced (even the
	Gloves should be chosen a full assessment of the w		the supplier / manufa	acturer and tak	ing account of
	Recommended: Nitrile glo Breakthrough time:	oves.			
	Breakthrough time data and and represent how long a is important when followin conditions are taken into a technical information on b Our recommendations on	glove can be exped g breakthrough tim account. Always cor reakthrough times t	cted to provide effecti e recommendations the nsult with your glove store the recommended	ve permeation nat actual work supplier for up-1	resistance. It place
	Continuous contact:				
	Gloves with a minimum be can be obtained. If suitable gloves are not a breakthrough times may be replacement regimes are	available to offer that e acceptable as lor	at level of protection, ng as appropriate glov	gloves with sho	orter
	Short-term / splash protec	tion:			
	Recommended breakthro It is recognised that for sh may commonly be used. T be determined and rigorou	ort-term, transient e herefore, appropria	exposures, gloves wit		
	Glove Thickness:				
	For general applications,	we recommend glov	ves with a thickness ty	ypically greater	than 0.35 mm.
	It should be emphasised t resistance to a specific ch on the exact composition on consideration of the ta Glove thickness may also glove model. Therefore, th to ensure selection of the	emical, as the pern of the glove materia sk requirements and vary depending on ne manufacturers' to	neation efficiency of the al. Therefore, glove se d knowledge of break the glove manufacture echnical data should a	ne glove will be election should through times. rer, the glove ty	dependent also be based /pe and the
	Note: Depending on the a for specific tasks. For exa		cted, gloves of varying	g thickness ma	y be required
	• Thinner gloves (down dexterity is needed. Howe would normally be just for	ver, these gloves a	re only likely to give s	short duration p	
	• Thicker gloves (up to 3 as a chemical) risk i.e. wh				nical (as well
Skin and body	Use of protective clothing Personal protective equip performed and the risks in product. Cotton or polyester/cotton contamination that will not basis. When the risk of s risk of splashing) then che	ment for the body s volved and should overalls will only p soak through to th kin exposure is high	hould be selected bas be approved by a spe rovide protection agai e skin. Overalls shou n (e.g. when cleaning	ecialist before h inst light superf ild be laundered up spillages or	andling this icial d on a regular if there is a
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# **SECTION 8: Exposure controls/personal protection**

will be required.
Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149 Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical a	and chemical properties
Physical state	Liquid.
Colour	Brown. [Dark]
Odour	Not available.
Odour threshold	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flammability	Not available.
Lower and upper explosion limit	Not available.
Flash point	Open cup: 160°C (320°F) [Cleveland ASTM D 92]
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	Not applicable.
Kinematic viscosity	Kinematic: 6000 mm²/s (6000 cSt) at 40°C
Solubility	

Media	Result	
water	Not soluble	
Not applicable.	·	

### Partition coefficient n-octanol/ water (log value)

Vapour pressure

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso- Bu and pentyl) esters, zinc salts	0.0000015	0.0000002				

Density and/or Relative density Relative vapour density Particle characteristics Median particle size 9.2 Other information Evaporation rate Explosive properties Oxidising properties >1000 kg/m³ (>1 g/cm³) at 15°C Not available.

Not applicable.

Not available. Not available. Not available.

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SECTION 10: Stability	SECTION 10: Stability and reactivity				
10.1 Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.				
10.2 Chemical stability	The product is stable.				
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.				
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame).				
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.				
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

# **SECTION 11: Toxicological information**

Г

Acute toxicity estimates	isses as defined in Regulation (EC	C) No 1272	2/2008		
Not available.					
Information on likely routes of exposure	Routes of entry anticipated: Derma	al, Inhalati	on, Eyes.		
Potential acute health effects					
Inhalation	May give off gas, vapour or dust the	hat is very	irritating or corrosive to	o the respirate	ory system.
Ingestion	No known significant effects or cri	tical hazar	ds.		
Skin contact	Defatting to the skin. May cause	skin drynes	ss and irritation.		
Eye contact	Causes serious eye damage.				
Symptoms related to the physical	sical, chemical and toxicological o	haracteri:	<u>stics</u>		
Inhalation	No specific data.				
Ingestion	Adverse symptoms may include th stomach pains	ne following	g:		
Skin contact	Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur	ne following	g:		
Eye contact	Adverse symptoms may include th pain watering redness	ne following	g:		
Delayed and immediate effect	s as well as chronic effects from	short and	long-term exposure		
Inhalation	Overexposure to the inhalation of respiratory tract.	airborne d	roplets or aerosols ma	y cause irritat	ion of the
Ingestion	Ingestion of large quantities may o	ause naus	sea and diarrhoea.		
Skin contact	Prolonged or repeated contact car	n defat the	skin and lead to irritati	ion and/or der	matitis.
Eye contact	Potential risk of transient stinging	or redness	if accidental eye conta	act occurs.	
Potential chronic health effect	<u>ts</u>				
General	No known significant effects or cri	tical hazar	ds.		
Carcinogenicity	No known significant effects or cri	tical hazar	ds.		
Mutagenicity	No known significant effects or cri	tical hazar	ds.		
Developmental effects	No known significant effects or cri	tical hazar	ds.		
Fertility effects	No known significant effects or cri				
11.2 Information on other haz	ards				
<b>11.2.1 Endocrine disrupting</b> Not available.	properties				
Remarks - Endocrine disruptor - Health 11.2.2 Other information	Not available.				
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## **SECTION 11: Toxicological information**

Not available.

### SECTION 12: Ecological information

### 12.1 Toxicity

**Environmental hazards** 

Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Not expected to be rapidly degradable.

#### 12.3 Bioaccumulative potential

Not available.

Not available.
Liquid. insoluble in water.

### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting properties	Not available.
Remarks - Endocrine disruptor - Environment	Not available.
12.7 Other adverse effects	No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

Yes

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

#### Hazardous waste European waste catalogue (EWC)

Waste code	Waste designation	
12 01 99	wastes not otherwise specified	

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

#### Packaging

**Methods of disposal** 

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

	Waste code	European waste catalogue (EWC)
15 01 10* packaging containing residues of or contaminated by hazardous substances		packaging containing residues of or contaminated by hazardous substances
\$	Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
F	References	Commission 2014/955/EU Directive 2008/98/EC

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## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for Not available. user

14.7 Maritime transport in bulk according to IMO instruments Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. EU Regulation (EC) No. 1907/2006 (REACH) **Annex XVII - Restrictions** Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other regulations REACH Status** The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. **United States inventory** All components are active or exempted. (TSCA 8b) Australia inventory (AIIC) At least one component is not listed. **Canada inventory** All components are listed or exempted. China inventory (IECSC) All components are listed or exempted. Japan inventory (CSCL) All components are listed or exempted. Korea inventory (KECI) At least one component is not listed. **Philippines inventory** All components are listed or exempted. (PICCS) **Taiwan Chemical** All components are listed or exempted. **Substances Inventory** (TCSI) Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU)

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# **SECTION 15: Regulatory information**

Not listed.

#### Persistent Organic Pollutants Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

Hazardous incident ordinance		
Hazard class for water	2 (classified according AwSV)	
Prohibited Chemicals Regulation (ChemVerbotsV)	When placed on the market in Germany, this product is not subject to the Prohibited Chemica Regulation (ChemVerbotsV).	ls
Occupational restrictions	Observe employment restrictions in the following: Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG) Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium (Mutterschutzgesetz – MuSchG)	

15.2 Chemical safety	A Chemical Safety Assessment has been carried out for one or more of the substances within
assessment	this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

# **SECTION 16: Other information**

Abbreviations and acronyms	ADN = European Provisions concerning the International Carriage of Dangerous Goods by				
	Inland Waterway				
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by				
	Road				
	ATE = Acute Toxicity Estimate				
	BCF = Bioconcentration Factor				
	CAS = Chemical Abstracts Service				
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]				
	CSA = Chemical Safety Assessment				
	CSR = Chemical Safety Report				
	DMEL = Derived Minimal Effect Level				
	DNEL = Derived No Effect Level				
	EINECS = European Inventory of Existing Commercial chemical Substances				
	ES = Exposure Scenario				
	EUH statement = CLP-specific Hazard statement				
	EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals				
	IATA = International Air Transport Association				
	IBC = Intermediate Bulk Container				
	IMDG = International Maritime Dangerous Goods				
	LogPow = logarithm of the octanol/water partition coefficient				
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as				
	modified by the Protocol of 1978. ("Marpol" = marine pollution)				
	OECD = Organisation for Economic Co-operation and Development				
	PBT = Persistent, Bioaccumulative and Toxic				
	PNEC = Predicted No Effect Concentration				
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]				
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number				
	SADT = Self-Accelerating Decomposition Temperature				
	SVHC = Substances of Very High Concern				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN				
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN				
Product name, lieform CEX 6000	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN				
Product name Iloform CFX 6000 Version 3.02 Date of issue 2	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN				

## **SECTION 16: Other information**

01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
Eye Dam. 1, H318 Aquatic Chronic 3, H412		Calculation method Calculation method
Full text of abbreviated H statements	H304 H315 H318 H411	May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Chronic 2 Asp. Tox. 1 Eye Dam. 1 Skin Irrit. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2
<u>History</u>		
Date of issue/ Date of revision	20/11/2023.	
Date of previous issue	20/11/2023.	
Prepared by	Product Stewardship	

✓ Indicates information that has changed from previously issued version.

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ſ	Product name II	loform CFX 60	00		Product code	468917-FR01	Page: 12/17
	Version 3.02	Date of issue	20 November 2023	Format	Germany	Language	ENGLISH
	Date of previo	us issue	20 November 2023.		(Germany)		



# Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture				
Product definition	Mixture			
Code	468917-FR01			
Product name	lloform CFX 6000			
Section 1: Title				
Short title of the exposure scenario	Use of lubricants in high energy open processes - Industrial			
List of use descriptors	Identified use name: Use of lubricants in high energy open processes-Industrial Process Category: PROC01, PROC02, PROC08b, PROC17 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04 Specific Environmental Release Category: ATIEL-ATC SPERC 4.Fi.v1			
Processes and activities covered by the exposure scenario	Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities.			

#### ation of the substance nivt ....

# Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure				
Product characteristics:				
Physical state:	Liquid, vapour pressure < 0.5 kPa			
Concentration of substance in product:	Covers use of substance/product up to 100 % (unless stated differently)			
Frequency and duration of use:	Covers daily exposures up to 8 hours			
Other conditions affecting workers exposure:	Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented			
<b>Contributing scenarios: Operational cond</b>	itions and risk management measures			
General measures applicable to all activities: Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.				
Filling of equipment from drums or containers: No specific measures identified.				
Metal machining operations: Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.				
Operation and lubrication of high energy open equipment: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).				
Automated metal rolling/forming Use in contained systems Operation is carried out at elevated temperature (> 20°C above ambient temperature): No other specific measures identified.				
Semi-automated metal rolling/forming Open systems Operation is carried out at elevated temperature (> 20°C above ambient temperature): Provide extract ventilation to points where emissions occur.				
Equipment cleaning and maintenance: Drain down system prior to equipment break-in or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Retain drain-downs in sealed storage pending disposal or for subsequent recycle. Storage:				
lloform CFX 6000	Use of lubricants in high energy open processes - Industrial			

Section 2.2: Control of environmental exp	osure
Amounts used:	
EU tonnage of risk determining substance per year:	2.05E+02 Tonnes/year
Frequency and duration of use:	
Emission days	300
Environment factors not influenced by risk management:	
Local freshwater dilution factor	10
Local marine water dilution factor	100
Other conditions affecting environmental exposure:	Water-based (oil in water emulsion) or straight oil (contains no water) process
Release fraction to air (after typical onsite RMMs)	5.00E-05
Release fraction to soil from process (after typical onsite RMMs)	0
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	Not available.
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant
Organisational measures to prevent/limit release from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3
Maximum allowable site tonnage (Msafe) based on release following total wastewater treatment removal as product:	Not available.
Conditions and measures related to external treatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste:	External recovery and recycling of waste should comply with applicable local and/or national regulations.

## Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment		
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).	
Exposure estimation and reference to its s	source - Workers	

# Section 4: Guidance to check compliance with the exposure scenario

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



## Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture	

Product definition	Mixture
Code	468917-FR01
Product name	lloform CFX 6000
Section 1: Title	
Short title of the exposure scenario	Use of lubricants in high energy open processes - Professional
List of use descriptors	Identified use name: Use of lubricants in high energy open processes-Professional Process Category: PROC01, PROC02, PROC08a, PROC17 Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a Specific Environmental Release Category: ATIEL-ATC SpERC 8.7c.v1
Processes and activities covered by the exposure scenario	Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities.

### Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure	
Product characteristics:	
Physical state:	Liquid, vapour pressure < 0.5 kPa
Concentration of substance in product:	Covers use of substance/product up to 100 % (unless stated differently)
Frequency and duration of use:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure:	Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented
Contributing scenarios: Operational cond	litions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Filling of equipment from drums or containers: Avoid carrying out activities involving exposure for more than 1 hour per day.

Metal machining operations: Provide extract ventilation to points where emissions occur.

Operation and lubrication of high energy open equipment:

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours per day. Wear a respirator conforming to EN140 with type A filter or better. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out activities involving exposure for more than 4 hours per day. Wear a respirator conforming to EN140 with type A filter or better. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

Iloform CFX 6000

Section 2.2: Control of environmental exposure		
Amounts used:		
EU tonnage of risk determining substance per year:	2.05E+02 Tonnes/year	
Frequency and duration of use:		
Emission days	365	
Environment factors not influenced by risk management:		
Local freshwater dilution factor	10	
Local marine water dilution factor	100	
Other conditions affecting environmental exposure:	Negligible wastewater emissions as process operates without water contact.	
Release fraction to air (after typical onsite RMMs)	5.00E-05	
Release fraction to soil from process (after typical onsite RMMs)	1E-03	
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan)	s Not available.	
Technical conditions and measures at process level (source) to prevent release:	Common practices vary across sites thus conservative process release estimates used.	
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:	Prevent discharge of undissolved substance to or recover from onsite wastewater.	
Organisational measures to prevent/limit release from site:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.	
Assumed domestic sewage treatment plant flow rate (m3/d)	2.00E+3	
Maximum allowable site tonnage (M <sub>Safe</sub> ) based on release following total wastewater treatment removal as product:	Not available.	
Conditions and measures related to external treatment of waste for disposal:	External treatment and disposal of waste should comply with applicable local and/or national regulations.	
Conditions and measures related to external recovery of waste:	External recovery and recycling of waste should comply with applicable local and/or national regulations.	

## Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment		
Exposure assessment (environment):	Used ECETOC TRA model (May 2010 release).	
Exposure estimation and reference to its so	ource - Workers	

## Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.