

Safety Data Sheet

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Date: **Jun 14th, 2007** Version: 1.00

1 – Identification of the Preparation and of the Company

Identification of the preparation:

Product name: **CLEANTIP**
Use of the preparation: Product used for the metals deoxidation before welding.
Company identification:
Manufacturer: MEXEL® S.A.
Address: Route de Compiègne
F-60410 Verberie – France.
Telephone number: 33 (0)3 44 38 39 40.
Fax number: 33 (0)3 44 38 39 49.
Emergency telephone number: 33 (0)1 40 05 48 48 (Poisons Control Center of Paris).

2 – Composition / Information on Ingredients

Preparation:

Chemical nature: Preparation based on fatty amines in an acid mixture.

Hazardous ingredients:

Substance	CAS N°	EC N°	EC classification	% w/w
Phosphoric acid	7664-38-2	231-633-2	C ; R34	< 40 %
Glycolic acid	79-14-1	201-180-5	C ; R34	< 30 %
Ethoxylated fatty amine	26635-93-8		C, N ; R22-34-50	< 5 %

3 – Hazards Identification

Classification of the preparation: According to criteria's of appendix I, II and III of the 1999/45/EC directive, this product is classified as:
HARMFUL.
CORROSIVE.

Principal hazards:

Harmful effects on health: Harmful if swallowed.
Corrosive for the eyes, the respiratory system and the skin.
Causes severe burns. Risk of serious damage to eyes.
Burns by acid must be treated immediately in order to avoid the formation of severe wounds.

Effects on the environment: Not classified as dangerous for the environment.

Physical and chemical hazards: No particular hazard of fire or explosion.

4 – First Aid Measures

Inhalation:

In case of serious inhalation, remove the subject from the contaminated zone and bring it to the fresh air. Keep at rest.
If the person is unconscious, place in side position of safety and call a medical ambulance.
If breathing is difficult, administer oxygen.
If not breathing, give artificial respiration.
Obtain immediately medical attention.

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Skin contact:	Immediately remove contaminated clothing and shoes. Wash immediately and abundantly the skin with water and soap for at least 15 minutes. Contact a doctor if skin irritation appears. Wash contaminated clothing before re-use.
Eye contact:	Rinse the eyes thoroughly for 5-10 minutes and with the eyelids wide apart. Carefully remove contact lenses. Continue to wash with water holding eyelids open, for at least 15 minutes. In all the cases, consult an ophthalmologist, even in the absence of apparent damage.
Ingestion:	Do not induce vomiting. Only when conscious, rinse mouth; give plenty of water to drink (approx.500 ml). Seek medical advice immediately, even in the absence of immediate damages. Show this sheet, the container or the label. Risk of burns in the mouth, the throat and in the stomach.
Medical information:	In case of splashing onto the face, take care to the eyes first. Burns by acid must be immediately treated in order to avoid the formation of severe wounds.
Protection of the rescuers:	If the exposure is likely to exceed the limit of professional exposure, in a well ventilated place, use a respiratory apparatus; in a confined place, use an apparatus with air adduction.

5 – Fire-Fighting Measures

Class of flammability:	Not combustible.
Technical measures:	Design the installations to avoid any propagation of fire.
Extinguishing media:	
Suitable:	Foam, Dry power extinguishers, Carbon dioxide (CO2).
Unsuitable:	Water jet.
Special exposure hazard in fire:	In contact with certain metals, releases of hydrogen gas that is an explosive and highly flammable product.
Required special equipment for firefighters:	Fire-protective clothing and self-contained breathing apparatus.
Special procedures:	Do not breathe fumes. Evacuate non-essential staff away from fumes into a well ventilated area Use water spray to cool fire-exposed containers. Avoid the penetration of water of extinction in surface or the ground water, sewer or water course.
Hazardous decomposition products:	Hydrogen gas, hydrogen cyanides, phosphorous oxides and nitrogen oxides.

6 – Accidental Release Measures

Personal precautions:	Evacuate non-essential staff and those not equipped with individual protection apparatus. Use suitable gloves, eye/face protection, impermeable boots and respiratory apparatus. Avoid contact with skin and eyes. Remove contaminated clothes as soon as possible.
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Environmental precautions:	Prevent release to ground, drain, and drinking waters. Inform respective authorities in case of seepage into water course or sewage system.
Methods for cleaning:	
Recovery:	Absorb leaking product on an inert material such as sand, earth, vermiculite, diatomaceous earth or other suitable inert material. Keep the residues in adapted and closed containers for elimination. Then transport the salvage containers in a reserved place, for later recycling or elimination.
Neutralization:	Neutralize with lime, calcium carbonate or sodium bicarbonate.
Disposal:	Use adequate containers for waste. For waste disposal, refer to section 13: "Disposal considerations".
Other information:	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7 – Handling and Storage

Handling

Technical measures:	Provide water supplies, ocular fountains and showers in the vicinity. Ensure an extraction or a general ventilation of the room in order to reduce the fog and/or vapor concentrations. Wear suitable protective clothing, impermeable gloves and chemical goggles. If use conditions can generate aerosol or mist, wear suitable respiratory equipment
Fire and explosion protection:	Keep away from sources of ignition No smoking. Prohibit the access to no authorized people.
Precautions to be taken:	Avoid all contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapours/spray. Wear individual protection equipment. It is recommended to not wear contact lenses. When using does not eat, drink or smoke.
Other cautions:	The product must be handled according to good practices of occupational hygiene and in accordance with the local regulation in order to limit any useless exposure. Never open packing by pressure. In case of dilution, add the product in water, <u>never</u> the reverse (risk of projections). Keep the place and working area in perfect cleanliness.
Storage	
Technical measures:	Storage and application surface areas must be impermeable and, if possible, constructed with an appropriate retention wall.
Storage conditions:	
Recommended:	Store in hermetically sealed container, in a dry and well ventilated place. Store protected from freezing and at temperature not exceeding 30°C. Protect from the strong heat and the direct sunlight. Keep away from any source of ignition, heat and incompatible matters. Keep away from food, drink and animal feeding stuffs.
Incompatible matters:	Store away from strong bases, oxidizing agents, cyanides, sulphides and metals. React with copper, aluminium, zinc and their alloys.

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Packing conditions:	Packing equipped with a closure. Polyethylene container with metal framework.	
Packing materials:	Store in a not corroded metal.	
Recommended:	Stainless steel 316L or protected by a coating acidproof. Plastic packing.	
Compatible matters:	Glass is usable for small quantities. In this case, containers will be protected by a more resistant metal envelope suitably adjusted.	
Not Recommended:	Aluminium and its alloys. Copper and its alloys. Zinc and its alloys. Do not store in metallic containers not protected.	

8 – Exposure Controls / Personal Protection

Exposure limit values:	Phosphoric acid:	VLE France : 3 mg/m ³ . VME France : 1 mg/m ³ . TLV-TWA USA : 1 mg/m ³ . TLV-STEL USA : 3 mg/m ³ . VLE EC : 2 mg/m ³ . VME EC : 1 mg/m ³ .
		A prolonged medical supervision can be indicated.
Exposure controls:	Ensure periodically atmosphere controls.	
Technical measures:	Provide adequate ventilation, if possible, by aspiration at the working stations and a suitable general extraction. If this ventilation is insufficient to maintain the vapour concentrations under the exposure limit values, wear breathing apparatuses. Keep the place and the working stations in perfect cleanliness, clean them frequently. Provide water supplies, eyewash stations and safety showers in the vicinity.	
<i>Occupational exposure controls</i>		
Respiratory protection:	If use conditions can generate vapour or fog or if workers are confronted with concentrations higher than occupational exposure limits, wear suitable respiratory equipment with filter cartridge standard B.	
Hand protection:	Protective gloves made of PVC, neoprene or nitrile rubber. The protective gloves must be immediately changed as soon as they present any signs of degradation.	
Skin protection:	Wear tight protective clothing and boots which will be maintained clean and in good condition. Dry-clean contaminated clothes before reuse.	
Eye protection:	Wear tightly fitting safety goggle and full face visor or shield.	
<i>Environmental exposure controls</i>		
Hygiene practice:	Do not flush to sewer and rivers. Wash immediately any affected parts of the body. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Remove immediately soaked or soiled clothing. Dry-clean contaminated clothes before reuse. Wash separately soaked or soiled clothing.	

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9 – Physical and Chemical Properties

General information

Appearance:

Physical state: Liquid at 20°C.
Colour: Pink.
Odour: Odourless.

Important health, safety and environmental information

pH 100 % : < 0.1.
50 % < 0.1.

Temperature characteristics:

Boiling point: Not determined.
Freezing point: Not determined..

Other data:

Density: \approx 1.3 at 20°C.
Solubility in water: Soluble.

10 – Stability and Reactivity

Stability: Stable under handling and the storage conditions recommended.
Materials to avoid: Avoid any contact with the alkalis, cyanides, sulfides and oxidants.
Reacts with the majority of usual metals with hydrogen release (ferrous metals, zinc, and aluminium are vulnerable).
Hazardous reactions: Dangerous reaction with bleach (sodium hypochlorite) with chlorine gas formation, highly toxic produce.
Hazardous decomposition products: Hydrogen gas, hydrogen cyanides, phosphorous oxides and nitrogen oxides.
Phosphoric acid fumes.
Conditions to avoid: Store protected from freezing and at temperature not exceeding 30°C.
Protect from the strong heat and the direct radiation of the sun.
Keep away from any source of ignition, heat and incompatible matters.
Others information: The hydrogen released in contact with certain metals can form explosive mixtures with the air.

11 – Toxicological Information

Acute toxicity: No data for the product itself, but by analogy, the product is considered as:
Harmful if swallowed.
(Assessment by the conventional method).
Ingestion: LD50 oral (Rat) = 1 530 mg/kg. Bibliographical data for the phosphoric acid > 25%.
Cutaneous: LD50 cutaneous (Rabbit) = 2 740 mg/kg. Bibliographical data for the phosphoric acid > 25%.
Local effects: Health effects:
Inhalation: The exposure to aerosols causes an intense irritation, then caustic lesions of the ocular and respiratory mucous membranes. Conjunctiva hyperthermia, watering, coughs, dyspnea like asthma and ocular and retro sternum pains that stop with the end of the exposure, but it could occur a delayed pulmonary oedema.
Ingestion: Harmful if swallowed.
Risk of burns in the mouth, the throat and in the stomach.

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Cutaneous:	May cause pains in the mouth, retro sternum and digestive tract. Possibility of vomiting. Corrosive. Causes severe burns. Projections cause severe burns whose severity depends on the time of contact with the preparation.
Eye:	Corrosive. Projections cause severe burns whose severity depends on the time of contact with the preparation.
Other data:	See toxicological sheet n°37 of the INRS on the phosphoric acid.

12 – Ecological Information

Mobility:	Soluble in water.
Ecotoxicity:	No data for the product itself, but the preparation is not anticipated to pose any environmental hazard. LC ₅₀ (Fish) / 96 h = 138 mg/l. Bibliographical data for the phosphoric acid > 25%. No data on specific toxicity to soil organisms, plants and terrestrial animals are available.
Other adverse effects:	The phosphates can stimulate the growth of algae and thus decrease the quality of water. Toxic effect due to the modification of the water pH. Acid substance being able to result in a decrease of the pH. The pH will go up quickly after the dilution in ambient water until formation of a neutral product. The substance cannot be discharged in a not controlled way: it could be harmful to the aquatic organisms.
Other information:	Do not reject as such into the natural environment or water without preliminary neutralization to pH 7.

13 – Disposal Considerations

Waste disposal:	
Prohibitions:	Do not discharge in the environment. Do not reject to sewers or rivers. Do not evacuate with the household waste.
Destruction/Elimination:	Store waste product in a dry and cool place and in a labeled container. Dispose of as hazardous waste in compliance with local or national regulations.
Waste category:	Hazardous waste in accordance with the Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.
EC Number of industrial waste:	06 01 04: acid phosphoric and acid phosphorous.
Soiled packing:	
Disposal:	After last use, packing will be entirely emptied and closed again. Keep the label on the container. Disposal must be made according to official regulations.

Notice

The user should be aware of the possible existence of national, provincial, municipal or local regulations that may affect waste disposal procedures.

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14 – Transport Information

International regulation:

	UN	Label	Packing	class	Hazard
Road/Rail (RID/ADR):	1760	8	III	8	80 CC:C9
Maritime (IMDG):	1760	8	III	8	EmS: 8-15
Air freight (OACI /IATA):	1760	8	III	8	

Proper Shipping Name: 1760 CORROSIVE LIQUID, NOS
 (Containing Phosphoric acid, organic acid and fatty amines)

Note

The regulations cited above are those in force as of the date of this writing. Due to the continuous evolution of regulations governing transport of hazardous materials, users are advised to obtain updated information from their supplier if the SDS in their possession is more than 12 months old.

15 – Regulatory Information

Community Regulations:

EEC Labelling:

The classification of this preparation was carried out in accordance with the 1999/45/EC directive and its adaptations. The 2001/59/EC directive was also taken into account.

Hazardous preparation, obligatory labelling (Auto-classification):
 Concerned.

Identification of the hazardous product: Contains phosphoric acid, glycolic acid and fatty amines.

Symbols and indications of hazard: Corrosive (C).

R-phrases:	R 22:	Harmful if swallowed.
	R 34:	Causes burns.
S-phrases:	S 26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
	S 45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S 60:	This material and its container must be disposed of as hazardous waste.

Exposure limit values:	Phosphoric acid:	ELV France : 3 mg/m ³ .
		EMV France : 1 mg/m ³ .
		TLV-TWA USA : 1 mg/m ³ .
		TLV-STEL USA : 3 mg/m ³ .
		ELV EC : 2 mg/m ³ .
		EMV EC : 1 mg/m ³ .

National Regulations:

France:

Code de la sécurité sociale: Occupational diseases : concerned.
 Table n°34 of the occupational diseases “Affections caused by some derived from phosphorus (phosphates)”.
 The presence of phosphorus and its compounds leads to a special medical supervision according to the French “arrêté du 11/07/77”.

Recording numbers:

European Inventory: All the components of this preparation are registered in EINECS or in ELINCS inventories.

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Note

The legal information cited this section (heading) reflects only the principal regulations specifically applicable to the subject of these SDS. The basic Community texts cited are the subjects of updates and are transcribed in national law.

Users are encouraged to refer to all applicable measures or provisions, international, national and local. Users should be aware of the possible existence of other provisions supplementing these regulations.

16 – Other Information

Relevant R phrases: R 22: Harmful if swallowed.
R 34: Causes burns.
R 50: Very toxic to aquatic organisms.

Author: SDS worked out by Mexel[®] SA, according to standard NF ISO 11014-1, the amended French decree of 5 January 1993 and the guideline of the FDS given in appendix II of European regulation EC 1907/2006 known as REACH.

Advice to users

This SDS supplements the technical notice but does not replace it. The information which it contains is based on the best data available as of the date of issuance, as are references to regulations and laws. It is given in good faith.

Users should be aware of potential risks if the product is used for purpose other than those for which it is intended.

The user is responsible for observing the regulations governing the usage of such products, and for observing appropriate precautions in usage, handling, and storage.

The laws and regulations cited in this document should not be considered an exhaustive listing ; they are mentioned to assist users in the proper usage of this product, but it remains the responsibility of users to observe all laws and regulations governing its usage.

End of the document: contains 8 pages.