

SAFETY DATA SHEET

According to EC Regulation 1907/2006/EC - revision 2015/830

Print Date 24/10/2017

Creation Date 02/02/2015

Revision No. 4.1
Revision Date 30/05/2017

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

1.1. Product identifier

Product Name ETCH KLENZ EXTRA
Product Code EP_0165G X1 (CLP)

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

Recommended use
Metal Cleaner and Conditioner.

1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

01902 510331 (available during Office Hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Skin corrosion: Category 1B
H314 - Causes severe skin burns and eye damage

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Contains ORTHOPHOSPHORIC ACID.

Hazard pictograms



Signal word DANGER

Hazard Statements

H314 - Causes severe skin burns and eye damage

Precautionary Statements

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P260 - Do not breathe vapors.
P280 - Wear protective gloves/protective clothing/eye protection.
For industrial and institutional use only.
Keep out of reach of children.

2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS**3.2 Mixture**

Component	CAS-No.	EC No.	EU - REACH reg number	Weight percent	EU - GHS/CLP Classificatio n	Notes
ORTHOPHOSPHORIC ACID	7664-38-2	231-633-2	01-21194859 24-24	20 - < 25	Skin Corr. 1B (H314)	B
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	252-104-2	01-21194500 11-60	10 - < 20	-	
PG C9-11 PARETH-6	68439-46-3		-	3 - < 5	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	
MONOPROPYLENE GLYCOL METHYL ETHER	107-98-2	203-539-1	01-21194574 35-35	3 - < 5	STOT SE 3 (H336) Flam. Liq. 3 (H226)	
ALCOHOLS C9-11 ETHOXYLATED (12EO)	68439-46-3	614-482-0	-	3 - < 5	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	

For any H statements mentioned in this section, see the full text in section 16.

EU Notes

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different labelling since the hazards vary at different concentrations.

SECTION 4. FIRST AID MEASURES**4.1. Description of first aid measures**General advice

Do not breathe vapours or spray mist. Do not get in eyes, on skin or on clothing.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact

Wash affected areas with plenty of soap and water for several minutes. Seek medical attention if irritation develops.

Ingestion

Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

Inhalation

Move to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

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

No information available.

Eye contact

May cause burns which could lead to permanent eye damage.

Skin contact

May cause burns on prolonged or repeated exposure.

Ingestion

May cause gastrointestinal irritation seen as nausea, vomiting and diarrhoea.

Inhalation

Inhalation may result in irritation or burns to the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment neededNotes to physician

Treat symptomatically. May cause burns of eyes, skin and mucous membranes.

SECTION 5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media***Suitable Extinguishing Media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Water spray. Foam. Carbon dioxide (CO₂). Dry chemical.

5.2. Special hazards arising from the substance or mixture

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Oxides of phosphorus.

Material can create slippery conditions.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. Environmental precautions

Avoid release of neat product into surface water and sanitary sewage system.

6.3. Methods and material for containment and cleaning up*Methods for Containment*

Contain spillage, soak up with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents. After cleaning, flush away traces with water.

6.4. Reference to other sections

Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Training : Due to the hazardous nature of this product, training in its use is recommended. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters***Exposure limits*

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Component	European Union	The United Kingdom	France	Germany	Austria
ORTHOPHOSPHORIC ACID		STEL: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.5 ppm STEL: 2 mg/m ³	AGW: 2mg/m ³ Peak: 4mg/m ³ TWA: 2mg/m ³	STEL: 2 mg/m ³ TWA: 1 mg/m ³

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DIPROPYLENE GLYCOL METHYL ETHER		STEL: 150 ppm STEL: 924 mg/m ³ TWA: 50 ppm TWA: 308 mg/m ³ Skin	TWA: 50 ppm TWA: 308 mg/m ³ Skin	AGW: 50ppm AGW: 310mg/m ³ Peak: 50ppm Peak: 310mg/m ³ TWA: 50ppm TWA: 310mg/m ³	Skin STEL: 100 ppm STEL: 614 mg/m ³ TWA: 50 ppm TWA: 307 mg/m ³
MONOPROPYLENE GLYCOL METHYL ETHER		STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin	TWA: 50 ppm TWA: 188 mg/m ³ STEL: 100 ppm STEL: 375 mg/m ³ Skin	AGW: 100ppm AGW: 370mg/m ³ Peak: 200ppm Peak: 740mg/m ³ TWA: 100ppm TWA: 370mg/m ³ BGW: 15mg/L	Skin STEL: 50 ppm STEL: 187 mg/m ³ TWA: 50 ppm TWA: 187 mg/m ³ Ceiling: 50 ppm Ceiling: 187 mg/m ³

Component	Spain	Portugal	Italy	The Netherlands	Switzerland
ORTHOPHOSPHORIC ACID	STEL: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 1 mg/m ³	STEL: 2 mg/m ³ TWA: 1 mg/m ³
DIPROPYLENE GLYCOL METHYL ETHER	Skin TWA: 50 ppm TWA: 308 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³ Skin	TWA: 50 ppm TWA: 308 mg/m ³ Skin	TWA: 300 mg/m ³	STEL: 50 ppm STEL: 300 mg/m ³ TWA: 50 ppm TWA: 300 mg/m ³
MONOPROPYLENE GLYCOL METHYL ETHER	Skin STEL: 150 ppm STEL: 568 mg/m ³ TVA: 100 ppm TWA: 375 mg/m ³	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin	Skin STEL: 563 mg/m ³ TWA: 375 mg/m ³	STEL: 200 ppm STEL: 720 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³

Component	Denmark	Finland	Norway	Sweden	Czech
ORTHOPHOSPHORIC ACID	TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³	1 mg/m ³ 3 mg/m ³	PEL: 1mg/m ³ NPK-P: 2mg/m ³
DIPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 309 mg/m ³ Skin	TWA: 50 ppm TWA: 310 mg/m ³ Skin	TWA: 50 ppm TWA: 300 mg/m ³ Skin	50 ppm 300 mg/m ³ 75 ppm 450 mg/m ³	PEL: 270mg/m ³ NPK-P: 550mg/m ³
MONOPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 185 mg/m ³ Skin	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin	TWA: 50 ppm TWA: 180 mg/m ³ Skin	50 ppm 190 mg/m ³ 75 ppm 300 mg/m ³	PEL: 270mg/m ³ NPK-P: 550mg/m ³

Component	Poland	Ireland
ORTHOPHOSPHORIC ACID	NDSch: 2 mg/m ³ NDS: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
DIPROPYLENE GLYCOL METHYL ETHER	NDSch: 480 mg/m ³ NDS: 240 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³ STEL: 150 ppm STEL: 924 mg/m ³ Skin
MONOPROPYLENE GLYCOL METHYL ETHER	NDSch: 360 mg/m ³ NDS: 180 mg/m ³	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³

8.2. Exposure controls

Control parametres

Provide an eyewash station. Provide washing facilities.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 eg P2 / P3 Particle filters. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Short term use eg occasional contact or splash protection ;. Nitrile rubber (0.4 mm). Long term use eg continuous wear or immersion ;. Solvent-resistant gloves (butyl-rubber). Fluorinated rubber. Breakthrough time of the glove material (protective index 6, breakthrough time: >480 min). For break through times, refer to glove manufacturers recommendations.

Skin Protection

Body protection must be chosen based on activity and possible exposure, e.g. footwear (solid shoes, rubber boots), rubber apron, long-sleeved work clothing, impervious suit.

Eye Protection

Safety glasses with side-shields. Approved to EN 166. For large volumes, faceshields should be used.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Information below relates to typical values and does not constitute a specification.

Appearance	Orange	Specific Gravity	1.14
Physical State	Liquid	Solubility	Soluble in water
Odour	Acidic	Autoignition Temperature	Not combustible.
pH	1.5	Viscosity	Fluid
Melting Point/Range	No information available.	Explosive properties	No information available
Boiling Point/Range	No information available.	Oxidizing Properties	No information available.
Flash Point	Not relevant	VOC Content (%)	24 %
Evaporation Rate	No information available.		
Flammability Limits in Air %	No information available.		
Vapour Pressure	No information available.		
Vapor Density	No information available.		

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY**10.1. Reactivity**

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

No conditions to be specially mentioned.

10.5. Incompatible materials

Strong bases. Oxidising agents. Reducing agents. Chlorine-based bleaching agents.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Oxides of phosphorus.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
ORTHOPHOSPHORIC ACID	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
DIPROPYLENE GLYCOL METHYL	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	

ETHER			
PG C9-11 PARETH-6	= 1400 mg/kg (Rat)		
MONOPROPYLENE GLYCOL METHYL ETHER	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 6 mg/L (Rat) 4 h
ALCOHOLS C9-11 ETHOXYLATED (12EO)	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	

Sensitisation

No information available.

Skin contact

May cause burns on prolonged or repeated exposure.

Inhalation

Inhalation may result in irritation or burns to the respiratory tract.

Ingestion

May cause gastrointestinal irritation seen as nausea, vomiting and diarrhoea.

Eye contact

May cause burns which could lead to permanent eye damage.

Carcinogenicity

Contains substance(s) with limited evidence of carcinogenic effects below the level for classification.

Mutagenic Effects

Contains substance(s) with limited evidence of mutagenic effects below the level for classification.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

The product itself has not been tested.

Ecotoxicity effects

Contains substance(s) known to be hazardous to the aquatic environment.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
DIPROPYLENE GLYCOL METHYL ETHER	LC50 > 10000 mg/L Pimephales promelas 96 h	1919: 48 h Daphnia magna mg/L LC50	
MONOPROPYLENE GLYCOL METHYL ETHER	LC50 = 20.8 g/L Pimephales promelas 96 h	23300: 48 h Daphnia magna mg/L EC50	

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Not likely to bioaccumulate. Component information below.

Component	log Pow
DIPROPYLENE GLYCOL METHYL ETHER	-0.064
MONOPROPYLENE GLYCOL METHYL ETHER	-0.437

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty remaining contents. Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

06 01 04* Phosphoric and phosphorous acid

07 06 01* aqueous washing liquids and mother liquors

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.

UN-No	UN1805
Proper Shipping Name	Phosphoric acid solution
Hazard Class	8
Packing Group	III
EmS	F-A, S-B

ADR / RID

UN-No	UN1805
Hazard Class	8
Packing Group	III
Classification Code	C1
Limited Quantity	5 L
Transport Cat. (Tunnel Restriction Code)	3 (E)

IATA/ICAO

UN-No	UN1805
Hazard Class	8
Packing Group	III
ERG Code	8L

14.5. Environmental hazards

The mixture is not environmentally hazardous for transport

14.6. Special precautions for user

No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

Additional information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

This is a detergent product and complies with the Detergent Regulation (EC) No.648/2004.

Labelling for contents (REGULATION (EC) No 648/2004 - 907/2006):

15 - 30% phosphates, 5 - 15% non-ionic surfactants,

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3

H226 - Flammable liquid and vapour. H314 - Causes severe skin burns and eye damage. H336 - May cause drowsiness or dizziness. H302 - Harmful if swallowed. H318 - Causes serious eye damage.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Calculation method. H314 - Causes severe skin burns and eye damage.

Prepared By Austen Pimm

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Revision summary

CLP update. SDS sections updated 2 15 3 16

Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet