

Material Safety Data Sheet

Material Name: TURCO DEOXIDINE 605

ID: 234141QUART / IDH No. 867945

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name TURCO DEOXIDINE 605

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
111-76-2	Ethylene glycol n-butyl ether	5-15
7664-38-2	Phosphoric acid	1-10

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Glycol ethers, Phosphorus compounds, inorganic.

*** Section 3 - Hazards Identification ***

Emergency Overview:

DANGER -- CORROSIVE! COMBUSTIBLE! May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. A component in this product may be harmful or fatal if absorbed through the skin. Product contains a glycol ether which caused blood disorders in rabbits.

Eye Contact:

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Skin Contact:

Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.

Skin Absorption:

A component in this product may be absorbed through the skin in harmful amounts.

Ingestion:

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Inhalation:

This product is severely irritating to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders. Disorders of the blood.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact:

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

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First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

Flash Point: 150 °F (65.55 °C)

Method Used: TCC

Flammability Classification: Combustible

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Fire & Explosion Hazards:

Fire and explosion hazards are moderate when this product is exposed to heat or flame. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Decomposition of this product may emit oxides of nitrogen.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Eliminate sources of ignition.

Clean-Up Procedures:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. For industrial use only. Do not take internally. Keep this product from heat, sparks, or open flame. Use caution when combining with water; DO NOT add water to acid, ALWAYS add acid to water while stirring to prevent release of heat, steam and fumes.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Ethylene glycol n-butyl ether (111-76-2)

ACGIH: 20 ppm TWA

OSHA: prevent or reduce skin absorption
50 ppm TWA; 240 mg/m³ TWA

NIOSH: 5 ppm TWA; 24 mg/m³ TWA
Potential for dermal absorption

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Phosphoric acid (7664-38-2)

ACGIH: 1 mg/m3 TWA
3 mg/m3 STEL
OSHA: 1 mg/m3 TWA
3 mg/m3 STEL
NIOSH: 1 mg/m3 TWA
3 mg/m3 STEL

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Work Practices:

Eye wash fountain and emergency showers are recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Liquid	Appearance:	Colorless
Odor:	Sweet	Vapor Pressure:	Not determined
Vapor Density:	Not determined	Boiling Point:	>212 °F (>100 °C)
Specific Gravity:	1.0-1.1	pH:	<2
Viscosity:	Not determined	VOC:	10.5%
Solubility Water:	Complete	Evaporation Rate:	Not determined
Percent Volatile:	Not determined	Percent Solids:	Not applicable

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid excessive heat and ignition sources.

Incompatibility:

This product may react with strong oxidizing agents. Adding water to this product may cause localized overheating and splattering.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization:

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

Phosphoric acid is an eye, skin and respiratory system irritant. Repeated exposure can cause bronchitis with cough, phlegm and shortness of breath. Long term skin contact may result in drying and cracking of the skin.

B: Component Analysis - LD50/LC50

Ethylene glycol n-butyl ether (111-76-2)

Inhalation LC50 Rat: 2.21 mg/L/4H; Inhalation LC50 Rat: 450 ppm/4H; Oral LD50 Rat: 470 mg/kg; Dermal LD50 Rat: 2270 mg/kg; Dermal LD50 Rabbit: 220 mg/kg

Phosphoric acid (7664-38-2)

Inhalation LC50 Rat: >850 mg/m³/1H; Oral LD50 Rat: 1530 mg/kg; Dermal LD50 Rabbit: 2730 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Ethylene glycol n-butyl ether (111-76-2)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

Chronic Toxicity

Ethylene glycol n-butyl ether is a glycol ether which may result in CNS depression characterized by headache, drowsiness, weakness, slurred speech, stuttering, loss of coordination and judgement, tremor, blurred vision, personality changes, and albuminuria. Glycol ethers may also result in liver or kidney damage, and hemolytic effects.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethylene glycol n-butyl ether (111-76-2)

Test & Species	Conditions
96 Hr LC50 Lepomis macrochirus	1490 mg/L [static]
24 Hr EC50 water flea	1720 mg/L
24 Hr LC50 Daphnia magna	1698-1940 mg/L

Phosphoric acid (7664-38-2)

Test & Species	Conditions
96 Hr LC50 Gambusia affinis	3-3.5 mg/L

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12 Hr EC50 Daphnia magna

4.6 mg/L

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002). This product, if discarded, may be characterized as a RCRA ignitable waste, D001.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Ethylene glycol n-butyl ether (111-76-2)

SARA 313: 1.0 % de minimis concentration (applies to R-(OCH₂CH₂)_n-OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230) (related to Glycol ethers)

Phosphoric acid (7664-38-2)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactive: Yes

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ethylene glycol n-butyl ether	111-76-2	Yes	No	Yes	Yes	Yes	Yes
Phosphoric acid	7664-38-2	Yes	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Ethylene glycol n-butyl ether	111-76-2	Yes	Yes	Yes
Phosphoric acid	7664-38-2	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethylene glycol n-butyl ether	111-76-2	1 %
Phosphoric acid	7664-38-2	1 %

* * * Section 16 - Other Information * * *

NFPA Ratings: Health: 3 Fire: 2 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 3* Fire: 2 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Product Safety and Regulatory Affairs

Contact Phone: (248) 583-9300

This is the end of MSDS # 234141QUART / IDH No. 867945