

Safety Data Sheet

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Revision Number 2



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

Product identification used on label

Product identifier	3049 TECTYL® 1420HF BLACK
Details of the supplier of the safety data sheet	Daubert Chemical Company 4700 S. Central Avenue Chicago, IL 60638 708-496-7350
Emergency telephone number	Chemtrec: (800) 424-9300
Relevant identified uses of the substance or mixture and uses advised against	Corrosion Preventive Compound

SECTION 2 Hazards identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard
Symbols



GHS Classification	Serious Eye Damage/Eye Irritation Category 2A Flammable Liquid Category 3
Signal Word	Warning
Hazard Statements	"DO NOT FREEZE" Flammable liquid and vapour. Causes serious eye irritation.
Precautionary Statements Prevention	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Use dry chemical, water fog, CO2, foam or sand/earth for extinction.

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Storage Keep container tightly closed.
Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with
local/regional/national/international regulation for hazardous wastes.

SECTION 3 Composition/information on ingredients

Chemical Name	CAS #	%
1-Propoxy-2-propanol	1569-01-3	5 - 10
n-Butyl alcohol	71-36-3	1 - 5

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4 First aid measures

Inhalation Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS.

Note to Doctor Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Combustible Liquid. Can form explosive mixtures at temperatures at or above the flash point.
Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

Fire Fighting Methods and Protection Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products Oxides of carbon, Nitrogen containing gases, Hydrocarbons

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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

Methods and materials for containment and cleaning up

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

SECTION 7 Handling and storage

Precautions for safe handling

Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get in eyes, on skin and clothing. Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Limit quantity of material stored. Store in a cool dry place. Do not store near combustible materials. Keep away from sources of ignition. Keep from freezing.

Incompatible materials

Strong oxidizing agents, Strong acids, Acetic anhydride, Peroxides

SECTION 8 Exposure controls/personal protection

Control parameters

Chemical Name

ACGIH TLV

ACGIH STEL

OSHA PEL

n-Butyl alcohol

20 ppm

100 ppm TWA; 300 mg/m³ TWA

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Engineering Measures	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits Facilities storing or using this material should be equipped with an eyewash and safety shower.
Respiratory Protection	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is possible.
Eye Protection	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves	Protective Gloves Recommended.

SECTION 9 Physical and chemical properties (Typical, not specification)

Physical State	Liquid
Color	Black
Odor	Slight Amine Type
Odor Threshold	No data available
pH	No data available
Melting Point, °C	No data available
Boiling Point, °C	No data available
Flash Point	> 105 °F(41 °C)
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Lower Flammable/Explosive Limit, % in air	No data available
Upper Flammable/Explosive Limit, % in air	No data available
Vapor Pressure	17.5 mmHg
Vapor Density	
Specific Gravity @ 25°C	1.02
Solubility in Water	Moderate; 50-99%
Octanol/Water Partition Coefficient	0.612
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	38 sec, Zahn
Volatiles, % by weight	66

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VOC, lb/gal 1.35
VOC, grams/liter 161.9
VOC minus exempt solvents & water, 2.8
lb/gal

SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions. Hazardous polymerization will not occur.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Contamination. Elevated temperatures. Freezing temperatures (will cause permanent damage).
Incompatible materials	Strong oxidizing agents, Strong acids, Acetic anhydride, Peroxides
Hazardous decomposition products	Decomposition and hazardous decomposition products are unlikely.

SECTION 11 Toxicological information

Likely Routes of Entry	Inhalation, Skin contact, Eye contact, Absorption
Target Organs Potentially Affected by Exposure	Eyes, Central Nervous System, Respiratory Tract, Lungs
Chemical Interactions That Change Toxicity	No chemical interaction known to affect toxicity.
Medical Conditions Aggravated	Respiratory disease including asthma and bronchitis

Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs). Can cause severe central nervous system depression (including unconsciousness).
Inhalation Toxicity	Can cause systemic damage (see "Target Organs")
Skin Contact	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption	Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eye Contact	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation	Corrosive to tissue. Can cause severe and permanent damage to mouth, throat, stomach. Aspiration may lead to lung damage.
Ingestion Toxicity	Harmful if swallowed.

Long-Term (Chronic) Health Effects

Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
Reproductive and Developmental Toxicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")

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Skin Contact Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Component Toxicology Data

Chemical Name	CAS Number	LD50/LC50
1-Propoxy-2-propanol	1569-01-3	Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 2000 mg/kg Inhalation LC50 (4h) Rat 8.34 ml/l
n-Butyl alcohol	71-36-3	Dermal LD50 Rabbit 5620 mg/kg Oral LD50 Rat = 790 mg/kg Inhalation LC50 (4h) Rat 17.9 mg/L

SECTION 12 Ecological information

Overview	No ecological information available
Mobility	No data
Persistence	No data
Bioaccumulation	No data
Degradability	No data

Ecotoxicity Data

Chemical Name	CAS Number	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
1-Propoxy-2-propanol	1569-01-3	EC50 (48 hr) Water flea > 100 mg/L	EC50 (96 hr) Green algae = 1466 mg/L	LC50 (96 hr) Rainbow trout > 100 mg/L
n-Butyl alcohol	71-36-3	EC50 (48 hr) Water flea = 1328 mg/L		LC50 (96 hr) Fathead minnow = 1376 mg/L

SECTION 13 Disposal considerations

Waste Description for Spent Product	Spent or discarded material is a hazardous waste.
Disposal Methods	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal Code(s)	D001

SECTION 14 Transport information

Full shipping name for Export, Air, Sea (any quantity unless flash pt. >150°F) or vessels of 119 GL or more Domestic Ground in vessels < 119 gal.	UN1268, PETROLEUM DISTILLATES, N.O.S., (Butyl alcohol), 3, PG III, Not Regulated
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SECTION 15 Regulatory information

TSCA Status All components in this product are on the TSCA Inventory or exempt.
Canadian DSL status: All chemical substances in this material are included on or exempted from listing on the Canadian DSL.

Chemical Name	CAS #	Regulation	Percent
n-Butyl alcohol	71-36-3	CERCLA	1 - 5 RQ = 5,000 lbs.
sec-Butyl alcohol	78-92-2	SARA 313	5 - 10
n-Butyl alcohol	71-36-3	SARA 313	1 - 5

SECTION 16 Other information

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Disclaimer Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

Version Original

Comments Approved: M. Longo / M. Duncan