

SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	Offense		
Other means of identification			
Product code	F2180		
Recommended use	Floor Wax Stripper		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/I	Distributor information		
Manufacturer			
Company name Address	Franklin Cleaning Technology One Fuller Way Great Bend, KS 67530 United States		
Telephone	Customer Service	(800) 810-482	29
E-mail	Not available.	(
Emergency phone number	CHEMTREC	(800) 424-930	
	Emergency 24 hour Emergency	(620) 792-171 (800) 424-930	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
nealth hazards	Acute toxicity, inhalation		Category 3
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritati	on	Category 1
	Specific target organ toxicity, si		Category 3 respiratory tract irritation
	Specific target organ toxicity, re	• ·	Category 1
	exposure	peatea	
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 3
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Harmful if swallowed. Causes s irritation. Toxic to aquatic life.	kin irritation. Ca	auses serious eye damage. May cause respiratory
Precautionary statement			
Prevention		tdoors or in a w	ly after handling. Do not eat, drink or smoke when vell-ventilated area. Avoid release to the ve/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.		
Storage	Store in a well-ventilated place.	Keep containe	er tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

4.88% of the mixture consists of component(s) of unknown acute oral toxicity. % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHYLENE GLYCOL PHENYL ETHER		122-99-6	10 - < 20
2-AMINOETHANOL		141-43-5	5 - < 10
SODIUM METASILICATE		6834-92-0	3 - < 5
Isopropyl Alcohol		67-63-0	< 0.1
Other components below reportable levels			70 - < 80

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре		Va	lue	
2-AMINOETHANOL (CAS 141-43-5)	B PEL			ng/m3	
			3	opm	
Isopropyl Alcohol (CAS 67-63-0)	PEL		98	0 mg/m3	
			40	0 ppm	
US. ACGIH Threshold L	imit Values				
Components	Туре		Va	lue	
2-AMINOETHANOL (CAS 141-43-5)	S STEL	-	6	opm	
	TWA		3	opm	
Isopropyl Alcohol (CAS 67-63-0)	STEL		40	0 ppm	
,	TWA		20	0 ppm	
US. NIOSH: Pocket Guid	le to Chemical Hazards				
Components	Туре		Va	lue	
2-AMINOETHANOL (CAS 141-43-5)	S STEL	-	15	mg/m3	
			6	opm	
	TWA		8 ו	mg/m3	
			3	opm	
Isopropyl Alcohol (CAS 67-63-0)	STEL		12	25 mg/m3	
,			50	0 ppm	
	TWA		98	0 mg/m3	
			40	0 ppm	
ogical limit values					
ACGIH Biological Expos	sure Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* – <i>′</i>					

* - For sampling details, please see the source document.

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Matches to Standard
Odor threshold	Not available.
рН	12.6 - 13.2
Melting point/freezing point	32 °F (0 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	201.2 °F (94.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.11 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	460.4 °F (238 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.80 lbs/gal estimated
Percent volatile	93.63 % estimated
Specific gravity	1.06 estimated
VOC	12 % estimated

10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Strong acids. Acids. Strong oxidizing agents. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.		
Skin contact	Causes skin irritation.		
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.		
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.		
Eye contact	Causes serious eye damage.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause respiratory irritation.		

Information on toxicological effects

Acute toxicity	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and
-	central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

Product	Species	Test Results
Offense		
<u>Acute</u>		
Dermal		
LD50	Rabbit	5173 mg/kg estimated
Inhalation		
LC50	Mouse	14000 ppm, 7 Hours estimated
	Rat	9000 ppm, 4 Hours estimated
Oral		
LD50	Mouse	8376 mg/kg estimated
	Rat	4804 mg/kg estimated
Other		
LD50	Rabbit	5600 mg/kg estimated
	Rat	839 mg/kg estimated

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)		
Not regulated.			
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not available.		
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.		
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.		
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.		

12. Ecological information

Ecotoxicity	Toxic to aquatic life.			
Product		Species	Test Results	
Offense				
Aquatic				
Crustacea	EC50	Daphnia	400.5626 mg/l, 48 hours estimated	
Fish	LC50	Fish	1767.41 mg/l, 96 hours estimated	
* Estimates for product may b	be based on a	dditional component data	not shown.	
Persistence and degradability	No data is a	No data is available on the degradability of this product.		
Bioaccumulative potential	No data ava	No data available.		
Partition coefficient n-octain 2-AMINOETHANOL ETHYLENE GLYCOL PHEN Isopropyl Alcohol		g Kow) -1.31 1.16 0.05		
Mobility in soil	No data ava	No data available.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideratio	ns			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.		
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging			an approved waste handling site for recycling or disposal. product residue, follow label warnings even after container is	

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations		00. All component	efined by the OSHA Hazard Communication ts are listed or exempted from listing on the U.S. EPA SCA.
TSCA Section 12(b) Export	Notification (40 CFR 707, S	ubpt. D)	
Not regulated.			
CERCLA Hazardous Subst	· · ·		
ETHYLENE GLYCOL PHENYL ETHER (CAS 122- Isopropyl Alcohol (CAS 67-63-0) SARA 304 Emergency release notification		6) Listed. Listed.	
Not regulated.	ed Substances (29 CFR 1910	0.1001-1050)	
Superfund Amendments and R	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	·	
SARA 302 Extremely hazar	•		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name	С	AS number	% by wt.
ETHYLENE GLYCOL PI	HENYL ETHER 12	22-99-6	10 - < 20
Other federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Polluta	nts (HAPs) List	
	HENYL ETHER (CAS 122-99- n 112(r) Accidental Release		FR 68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
FEMA Priority Substan	ces Respiratory Health and	Safety in the Flav	vor Manufacturing Workplace
Isopropyl Alcohol (C	CAS 67-63-0)	Low priority	
US state regulations			
US. California Controlled S	ubstances. CA Department	of Justice (Califo	ornia Health and Safety Code Section 11100)
Not listed. US. California. Candidate C (a))	chemicals List. Safer Consu	mer Products Re	gulations (Cal. Code Regs, tit. 22, 69502.3, subd.
	HENYL ETHER (CAS 122-99-	6)	
Isopropyl Alcohol (CAS	-		
US. Massachusetts RTK - S			
2-AMINOETHANOL (CA Isopropyl Alcohol (CAS (

US. New Jersey Worker and Community Right-to-Know Act

2-AMINOETHANOL (CAS 141-43-5) ETHYLENE GLYCOL PHENYL ETHER (CAS 122-99-6) Isopropyl Alcohol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law

2-AMINOETHANOL (CAS 141-43-5) ETHYLENE GLYCOL PHENYL ETHER (CAS 122-99-6) Isopropyl Alcohol (CAS 67-63-0)

US. Rhode Island RTK

ETHYLENE GLYCOL PHENYL ETHER (CAS 122-99-6) Isopropyl Alcohol (CAS 67-63-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	09-18-2014
Revision date	12-06-2016
Version #	02
Disclaimer	The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.