

Manufacturer:

Epoxy Technology

Product Name: EPO-TEK[®] 353NDT Thixotropic High Temperature Epoxy, Heat Cure (4g)

Manufacturer Part Number: ET353NDT-4G

Click here for more details on the EPO-TEK® 353NDT Thixotropic High Temperature Epoxy, Heat Cure (4g)

OFFICE OFFICE OFFIC	Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/21/2022 Revision date: 3/22/2023 Supersedes: 9/21/2022 Version: 2.0
SECTION 1: Identification	
1.1. Identification	
Product form Product name	: Mixture : EPO-TEK® 353ND-T PART A
1.2. Recommended use and rest	rictions on use
Use of the substance/mixture Recommended use Restrictions on use	: Adhesives : Adhesives : Not to be used for any purpose other than the one the product was designed for
1.3. Supplier	
Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 <u>www.epotek.com</u>	
	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
Emergency number SECTION 2: Hazard(s) identifi	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
Emergency number SECTION 2: Hazard(s) identifi 2.1. Classification of the substan	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
1.4. Emergency telephone number Emergency number SECTION 2: Hazard(s) identifi 2.1. Classification of the substan GHS US classification Skin corrosion/initation Category 2 Skin sensitization, Category 1 Specific target organ toxicity (single exp Hazardous to the aquatic environment - Full text of H statements : see section 1	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585 ication Ice or mixture H315 Causes skin irritation H317 May cause an allergic skin reaction H370 Causes damage to organs - Chronic Hazard Category 2 H411 Toxic to aquatic life with long lasting effects
Emergency number SECTION 2: Hazard(s) identifi 2.1. Classification of the substan GHS US classification Skin corrosion/irritation Category 2 Skin sensitization, Category 1 Specific target organ toxicity (single exp Hazardous to the aquatic environment – Full text of H statements : see section 1	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585 ication Ice or mixture H315 Causes skin irritation H317 May cause an allergic skin reaction H370 Causes damage to organs - Chronic Hazard Category 2 H411 Toxic to aquatic life with long lasting effects 6
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P302+P352 - If on skin: Wash with plenty of water. P307+P311 - If exposed: Call a poison center/doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
2
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	GHS US classification
Epoxy phenol novolac resin	CAS-No.: 9003-36-5	≥ 60	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Polar activator*	CAS-No.: Trade Secret	< 0.60	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Comments : Components not listed are either non-hazardous or are below reportable limits. Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	

Learn More

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the chem	nical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and pred	cautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
For containment	: Collect spillage.
Methods for cleaning up Other information	 Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	

	-
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allower out of the workplace. Do not eat, drink or smoke when using this product. Always wash hand after handling the product.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
to change without notice.	

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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls Environmental exposure controls	: Ensure good ventilation of the work station. : Avoid release to the environment.	
8.3. Individual protection measures/Perse	onal protective equipment	
Hand protection:		
Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respiratory equipment		
Personal protective equipment symbol(s):		



SECTION 9. Physical and chemical	SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and c	hemical properties	
Physical state Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature	Eliquid Etan Mild odor No data available No d	

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Viscosity, dynamic	1	No data available
Explosion limits	1	No data available
Explosive properties	1	No data available
Oxidizing properties	1	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

1.1. Information on toxicological ef	lects
cute toxicity (oral) cute toxicity (dermal) cute toxicity (inhalation)	: Not classified : Not classified : Not classified
Polar activator	
D50 oral rat	1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
D50 dermal rabbit	300 mg/kg Source: ECHA
.C50 Inhalation - Rat	128 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
kin corrosion/irritation	: Causes skin irritation.

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Polar activator	
NOAEL (animal/male, F0/P)	< 1000 mg/kg body weight Animal: mouse, Animal sex: male
STOT-single exposure	: Causes damage to organs.
Polar activator	
STOT-single exposure	Causes damage to organs.
STOT-repeated exposure	: Not classified
Epoxy phenol novolac resin (9003-3	6-5)
NOAEL (oral,rat,90 days)	≈ 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information	on	
12.1. Toxicity		
Ecology - general	: Toxic to aquatic life with long lasting effects.	
Epoxy phenol novolac resin (9003-36-	5)	
LC50 - Fish [1]	1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence)	
EC50 - Crustacea [1]	3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP)	
LC50 - Fish [2]	1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
LOEC (chronic) 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC (chronic)	0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Polar activator		
LC50 - Fish [1]	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect)	
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
12.2. Persistence and degradability		
Epoxy phenol novolac resin (9003-36-	5)	
Persistence and degradability	Not readily biodegradable in water.	
Polar activator		
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance	

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Polar activator			
ThOD	1.5 g O ₂ /g substance		
12.3. Bioaccumulative potential			
Epoxy phenol novolac resin (9003-36-5)			
Partition coefficient n-octanol/water (Log Pow)	2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Polar activator			
BCF - Fish [1]	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)		
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in soil			
Epoxy phenol novolac resin (9003-36-5)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)		
Ecology - soil	Low potential for mobility in soil.		
Polar activator			
Mobility in soil	2.75 Source: HSDB		
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-0.89 – -0.21 (log Koc, Calculated value)		
Ecology - soil	Highly mobile in soil.		
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Disposal methods			
Waste treatment methods :	Dispose of contents/container in accordance with licensed collector's sorting instructions.		
SECTION 14: Transport information			
In accordance with DOT / TDG / IMDG / IATA			

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No	: UN3082
UN-No. (TDG)	: UN3082
UN-No. (IMDG)	: 3082
UN-No. (IATA)	: 3082

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14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Environmentally hazardous substances, liquid, n.o.s. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac) Environmentally hazardous substance, liquid, n.o.s. (Epoxy Phenol Novolac)
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	
TDG Transport hazard class(es) (TDG) Hazard labels (TDG)	
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : III : III : III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant	: Yes : Yes
ange without notice.	\checkmark

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14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN3082 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this material. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transpunit must be leak-proof when used as bulk packaging. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 155 : 203 : 241 : No Limit

TDG UN-No. (TDG)

: UN3082

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TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly
	contributes to the hazard or hazards posed by the dangerous goods must be shown, in
	parentheses, on the shipping document following the shipping name in accordance with clause
	3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in
	parentheses, on a small means of containment or on a tag following the shipping name in
	accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).
	(2) Despite subsection (1), the technical name for the following dangerous goods is not required
	to be shown on a shipping document or on a small means of containment when Canadian law fo
	domestic transport or an international convention for international transport prohibits the
	disclosure of the technical name:
	(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
	(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
	(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
	(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
	(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.
	(3) Despite subsection (1), the technical name for the following dangerous goods is not required
	to be shown on a small means of containment:
	(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that
	are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077
	there is no visible liquid when the dangerous goods are loaded into a means containment and
	during transport.
	(2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General
	Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering
	for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The
	dangerous goods must be contained in one or more small means of containment designed,
	constructed, filled, closed, secured and maintained so that under normal conditions of transport,
	including handling, there will be no accidental release of the dangerous goods that could
	endanger public safety.
Explosive Limit and Limited Quantity Index	: 5L
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
IMDG Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: 5L : E1
Packing instructions (IMDG)	: LP01, P001
	: PP1
Packing provisions (IMDG) IBC packing instructions (IMDG)	: PP1 : IBC03
	: IBC03 : T4
Tank instructions (IMDG)	
Tank special provisions (IMDG)	
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) Stowage category (IMDG)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
IATA PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 1904 : 30kaG
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: Jukgo : 964
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 964 : 450L
CAO packing instructions (IATA)	: 964
CAC packing instructions (IATA)	
CAO max net quantity (IATA)	: 450L

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EPO-TEK® 353ND-T PART A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Special provision (IATA) : A97, A158, A197, A215 ERG code (IATA) : 9L 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. Polar activator CAS-No. 67-56-1 < 0.60% Polar activator Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ 5000 lb 15.2. International regulations CANADA Epoxy phenol novolac resin (9003-36-5) Listed on the Canadian DSL (Domestic Substances List) Polar activator Listed on the Canadian DSL (Domestic Substances List) EU-Regulations No additional information available National regulations Epoxy phenol novolac resin (9003-36-5) Listed on INSQ (Mexican National Inventory of Chemical Substances) Polar activator Listed on INSQ (Mexican National Inventory of Chemical Substances) 15.3. US State regulations This product can expose you to Polar activator, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Component State or local regulations Polar activator() U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List

Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.





Manufacturer:

Epoxy Technology

Product Name: EPO-TEK[®] 353NDT Thixotropic High Temperature Epoxy, Heat Cure (4g)

Manufacturer Part Number: ET353NDT-4G

Click here for more details on the EPO-TEK® 353NDT Thixotropic High Temperature Epoxy, Heat Cure (4g)

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SECTION 16: Other information

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Full text of H-phrases

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H370	Causes damage to organs
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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