

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/12/2019 Revision date: 12/12/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	 Mixture Pesticide Mix B AL0-130969
1.2. Recommended use and restriction	ns on use
No additional information available	
1.3. Supplier	
Phenova 6390 Joyce Dr. Suite 100 Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or	r mixture
GHS US classification	

GHS US classification		
Flammable liquids Category 2	H225	Highly flammable liquid and vapour
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Carcinogenicity Category 1B	H350	May cause cancer
Specific target organ toxicity (single exposure) Category 3	H336	May cause drowsiness or dizziness
, , ,		

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	 H225 - Highly flammable liquid and vapour H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H350 - May cause cancer
Precautionary statements (GHS US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
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 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center or doctor if you feel unwell P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substa

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
acetone (Component)	(CAS-No.) 67-64-1	99.1
2,4-D (Component)	(CAS-No.) 94-75-7	0.1
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5	0.1
2,4,6-trichlorophenol (Component)	(CAS-No.) 88-06-2	0.1

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	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effec	ts (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention and special treatment, if necessary	

No additional information available

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media : Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical		

No additional information available

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5.3. Special pro	tective equipment and pr	ecautions for fire-fighters		
		1 2 0 0	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefi	ghting	: Do not enter fire area without pro	per protective equipment, including respiratory protection.	
SECTION 6: Acci	dental release meas	ures		
6.1. Personal pr	ecautions, protective equ	uipment and emergency procedure	es	
6.1.1. For non-em	ergency personnel			
Emergency procedure	5	: Evacuate unnecessary personne	ι.	
	ncy responders			
Protective equipment		: Equip cleanup crew with proper p	protection.	
Emergency procedure	5	Ventilate area.		
6.2. Environmer	ntal precautions			
Prevent entry to sewer	s and public waters. Notify	authorities if liquid enters sewers or	public waters.	
6.3. Methods an	d material for containme	nt and cleaning up		
Methods for cleaning u	ıр	: Soak up spills with inert solids, su spillage. Store away from other n	uch as clay or diatomaceous earth as soon as possible. Collect naterials.	
6.4. Reference t	o other sections			
See Heading 8. Expos	ure controls and personal	protection.		
SECTION 7: Han	dling and storage			
7.1. Precautions	for safe handling			
Precautions for safe handling :		Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.		
7.2. Conditions	for safe storage, includin	g any incompatibilities		
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.				
Incompatible products		: Strong bases. Strong acids.		
Incompatible materials		: Sources of ignition. Direct sunligh	nt.	
SECTION 8: Expe	osure controls/perso	onal protection		
8.1. Control par	ameters			
Pesticide Mix B				
ACGIH	Local name		Acetone	
ACGIH	ACGIH TWA (p		250 ppm	
ACGIH	ACGIH STEL (p	opm)	500 ppm	
ACGIH	Remark (ACGI		eye irr; CNS impair; BEI	
ACGIH	Regulatory refe	rence	ACGIH 2018	
OSHA	OSHA PEL (TV	VA) (mg/m³)	2400 mg/m ³	
OSHA	OSHA PEL (TW	VA) (ppm)	1000 ppm	
OSHA	Regulatory refe	erence (US-OSHA)	OSHA	
2,4-D (94-75-7)				
ACGIH	Local name		2,4-D	
ACGIH	ACGIH TWA (m	ng/m³)	10 mg/m ³	
ACGIH	Remark (ACGI		Thyroid eff; kidney tubular dam; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to	
			classify the agent into one of the other categories)	
ACGIH	Regulatory refe	rence	ACGIH 2018	

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2,4-D (94-75-7)		
OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
2,3,4,5,6-pentachlo	prophenol (87-86-5)	
ACGIH	Local name	Pentachlorophenol
ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (Inhalable fraction and vapor)
ACGIH	ACGIH STEL (mg/m ³)	1 mg/m³ (Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	URT & eye irr; CNS & card impair; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure); BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
2,4,6-trichlorophe	nol (88-06-2)	
Not applicable		
acetone (67-64-1)		
ACGIH	Local name	Acetone
ACGIH	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
	: Colorless	
	: characteristic	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivit	y	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperat	ures.	
10.5. Incompatible materials		
Strong acids. Strong bases.		
10.6. Hazardous decomposition product	ts	
fume. Carbon monoxide. Carbon dioxide.		

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information 11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
2,4-D (94-75-7)		
LD50 oral rat	370 mg/kg body weight (Rat, Oral)	
LD50 dermal rabbit	1400 mg/kg body weight (Rabbit, Skin)	
ATE US (oral)	370 mg/kg body weight	

ATE US (dermal)

1400 mg/kg body weight

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2,3,4,5,6-pentachlorophenol (87-86-5)		
LC50 inhalation rat (mg/l)	355 mg/m ³ (Rat, Literature, Inhalation)	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	100 ppmV/4h	
ATE US (vapors)	0.5 mg/l/4h	
ATE US (dust, mist)	0.05 mg/l/4h	
2,4,6-trichlorophenol (88-06-2)		
LD50 oral rat	820 mg/kg (Rat, Literature study, Oral)	
ATE US (oral)	820 mg/kg body weight	
acetone (67-64-1)		
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)	
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)	
LC50 inhalation rat (mg/l)	76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))	
ATE US (oral)	5800 mg/kg body weight	
ATE US (dermal)	20000 mg/kg body weight	
ATE US (vapors)	76 mg/l/4h	
ATE US (dust, mist)	76 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: May cause cancer.	
2,3,4,5,6-pentachlorophenol (87-86-5)		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
246 trichlorophonol (88 06 2)		

National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
2,4,6-trichlorophenol (88-06-2)			
IARC group	2B - Possibly carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
Reproductive toxicity	: Not classified		
STOT-single exposure	: May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.		

SECTION 12: Ecological information

12.1. Toxicity

2,4-D (94-75-7)			
LC50 fish 1	82 mg/l (96 h, Salmo gairdneri, Literature study)		
EC50 Daphnia 1	90 mg/l (48 h, Daphnia magna, Literature study)		
ErC50 (algae)	33.2 mg/l (Other, 120 h, Selenastrum capricornutum, Experimental value, GLP)		
2,3,4,5,6-pentachlorophenol (87-86-5)			
LC50 fish 1	0.052 mg/l (96 h, Salmo gairdneri)		
EC50 Daphnia 1	0.01 - 0.36 mg/l (48 h, Daphnia magna)		
2,4,6-trichlorophenol (88-06-2)			
LC50 fish 1	0.73 mg/l (96 h, Salmo gairdneri, Literature study)		
EC50 Daphnia 1	0.69 mg/l (48 h, Daphnia magna, Literature study)		

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acetone (67-64-1)			
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)		
2.2. Persistence and degradability			
Pesticide Mix B			
Persistence and degradability	Not established.		
2,4-D (94-75-7)			
Persistence and degradability	Biodegradable in the soil. Inhibition of nitrification. Readily biodegradable in water.		
2,3,4,5,6-pentachlorophenol (87-86-5)			
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.		
2,4,6-trichlorophenol (88-06-2)			
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.		
acetone (67-64-1)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.43 g O₂/g substance		
Chemical oxygen demand (COD)	1.92 g O₂/g substance		
ThOD			
-	2.2 g O ₂ /g substance		
BOD (% of ThOD)	0.872 (20 day(s), Literature study)		
2.3. Bioaccumulative potential			
Pesticide Mix B			
Bioaccumulative potential	Not established.		
2,4-D (94-75-7)			
BCF fish 1	< 10 (Other, 3 day(s), Leuciscus idus, Fresh water, Experimental value)		
Log Pow 2.58 - 2.83 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water) Flask Method, 25 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
2,3,4,5,6-pentachlorophenol (87-86-5)			
BCF fish 1	770 (768 h, Pimephales promelas)		
BCF fish 2	39 - 224 (Cyprinus carpio, Test duration: 8 weeks)		
BCF other aquatic organisms 1	1250 (Algae) 4.07 - 5.19		
Log Pow Bioaccumulative potential	Potential for bioaccumulation ($500 \le BCF \le 5000$).		
2,4,6-trichlorophenol (88-06-2) BCF fish 1	12130 (36 day(s), Poecilia reticulata, Literature study)		
Log Pow	3.4 - 4.05 (Literature)		
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).		
acetone (67-64-1)			
BCF fish 1	0.69 (Pisces)		
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)		
Log Pow	-0.24 (Test data)		
Bioaccumulative potential	Not bioaccumulative.		
2.4. Mobility in soil			
2,4-D (94-75-7)			
Ecology - soil	No (test)data on mobility of the substance available.		
2,3,4,5,6-pentachlorophenol (87-86-5)			
Ecology - soil	No (test)data on mobility of the substance available.		
2,4,6-trichlorophenol (88-06-2)			
Ecology - soil	No (test)data on mobility of the substance available.		

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acetone (67-64-1)				
Surface tension	0.0237 N/m			
Ecology - soil	No (test)data on mobility of the substance available.			
2.5. Other adverse effects				
Pesticide Mix B				
2,4-D (94-75-7)				
Z,4-D (34-73-7)				
2,3,4,5,6-pentachlorophenol (87-86-5)				
2,4,6-trichlorophenol (88-06-2)				
acetone (67-64-1)				
ther information	: Avoid release to the environment.			
ECTION 13: Disposal consideration	S			
3.1. Disposal methods				
roduct/Packaging disposal recommendations cology - waste materials	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. 			
cology - waste materials	. Avoid release to the environment.			
ECTION 14: Transport information				
epartment of Transportation (DOT) a accordance with DOT				
ransport document description	: UN1090 Acetone (acetone ; 2,4-dichlorophenoxyacetic acid ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol), 3, II			
N-No.(DOT)	: UN1090			
roper Shipping Name (DOT)	: Acetone			
	acetone ; 2,4-dichlorophenoxyacetic acid ; 2,3,4,5,6-pentachlorophenol ; 2,4,6-trichlorophenol			
lass (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120			
acking group (DOT)	: II - Medium Danger			
azard labels (DOT)	: 3 - Flammable liquid			
	PLAMABLE LIQUID			
OT Packaging Non Bulk (49 CFR 173.xxx)	: 202			
OT Packaging Bulk (49 CFR 173.xxx)	: 242			
OT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal			
OT Packaging Exceptions (49 CFR 173.xxx)	: 150			
OT Quantity Limitations Passenger aircraft/rail 9 CFR 173.27)				
OT Quantity Limitations Cargo aircraft only (49 FR 175.75)	: 60 L			

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deck only" on (2)(i) of this
hlorophenol ;
prophenol ;

SECTION 15: Regulatory information

15.1. US Federal regulations

2,4-D (94-75-7)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Not subject to reporting requirements of the United	s SARA Section 313		
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ 100 lb			
2,3,4,5,6-pentachlorophenol (87-86-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ 10 lb			
2,4,6-trichlorophenol (88-06-2)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State			
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	10 lb		
acetone (67-64-1)			
Listed on the United States TSCA (Toxic Substar Not subject to reporting requirements of the United			
CERCLA RQ	CERCLA RQ 5000 lb		

15.2. International regulations

CANADA

2,4-D (94-75-7)

Listed on the Canadian DSL (Domestic Substances List)

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2,3,4,5,6-pentachlorophenol (87-86-5)		
Listed on the Canadian DSL (Domestic Substances List)		
2,4,6-trichlorophenol (88-06-2)		
Listed on the Canadian NDSL (Non-Domestic Substances List)		
acetone (67-64-1)		
Listed on the Canadian DSL (Domestic Substances List)		

EU-Regulations

No additional information available

National regulations

2,4-D (94-75-7)	
isted on IARC (International Agency for Research on Cancer) isted on EPA Hazardous Air Pollutant (HAPS)	
2,3,4,5,6-pentachlorophenol (87-86-5)	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)	
2,4,6-trichlorophenol (88-06-2)	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)	

15.3. US State regulations

2,3,4,5,6-pentac	hlorophenol (87-86-	5)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	40 µg/day	
2,4,6-trichloropl	nenol (88-06-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	10 μg/day	

SECTION 16: Other information Revision date : 12/12/2019 Other information : None.

Full text of H-phrases:

H225	Highly flammable liquid and vapour	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H336	May cause drowsiness or dizziness	
H350	May cause cancer	

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