

Pesticide Mix A

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 : Mixture
 Product name : Pesticide Mix A
 Product code : AL0-130968

1.2. Recommended use and restrictions 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 mixture

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
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
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
 H340 - May cause genetic defects
 H350 - May cause cancer

Precautionary statements (GHS US) : 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

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

skin with water/shower
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.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: 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

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. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.
acetone (Component)	(CAS-No.) 67-64-1	97.4
alachlor (Component)	(CAS-No.) 15972-60-8	0.1
atrazine (Component)	(CAS-No.) 1912-24-9	0.1
azinphos-methyl (Component)	(CAS-No.) 86-50-0	0.1
benzo[a]pyrene (Component)	(CAS-No.) 50-32-8	0.1
diazinon (Component)	(CAS-No.) 333-41-5	0.1
carbaryl (Component)	(CAS-No.) 63-25-2	0.1
Trifluralin (Component)	(CAS-No.) 1582-09-8	0.1
diuron (Component)	(CAS-No.) 330-54-1	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 effects (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

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : 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 firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling 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, including 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 sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Pesticide Mix A		
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
alachlor (15972-60-8)		
ACGIH	Local name	Alachlor
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Inhalable fraction and vapor)

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

alachlor (15972-60-8)		
ACGIH	Remark (ACGIH)	Hemosiderosis; DSEN; 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)
ACGIH	Regulatory reference	ACGIH 2018
atrazine (1912-24-9)		
ACGIH	Local name	Atrazine
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (Inhalable fraction)
ACGIH	Remark (ACGIH)	CNS convul; 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)
ACGIH	Regulatory reference	ACGIH 2018
azinphos-methyl (86-50-0)		
ACGIH	Local name	Azinphos-methyl
ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	Cholinesterase inhib; Skin; DSEN; 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); BEIA
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	0.2 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
benzo[a]pyrene (50-32-8)		
Not applicable		
carbaryl (63-25-2)		
ACGIH	Local name	Carbaryl
ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	Cholinesterase inhib; male
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA
diazinon (333-41-5)		
ACGIH	Local name	Diazinon
ACGIH	ACGIH TWA (mg/m ³)	0.01 mg/m ³ (Inhalable fraction and vapor)
ACGIH	Remark (ACGIH)	Cholinesterase inhib

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diazinon (333-41-5)		
ACGIH	Regulatory reference	ACGIH 2018
diuron (330-54-1)		
ACGIH	Local name	Diuron
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	Remark (ACGIH)	URT irr
ACGIH	Regulatory reference	ACGIH 2018
Trifluralin (1582-09-8)		
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.

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
pH	: 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.

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 reactivity

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 temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

alachlor (15972-60-8)	
LD50 oral rat	930 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
LD50 dermal rabbit	3500 mg/kg (Rabbit, Dermal)
ATE US (oral)	930 mg/kg body weight
ATE US (dermal)	3500 mg/kg body weight

azinphos-methyl (86-50-0)	
LD50 oral rat	10 mg/kg (Rat, Oral)
LC50 inhalation rat (mg/l)	0.15 mg/l (4 h, Rat, Inhalation (dust))
ATE US (oral)	10 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.15 mg/l/4h
ATE US (dust, mist)	0.15 mg/l/4h

carbaryl (63-25-2)	
LD50 oral rat	230 mg/kg (Rat, Literature study, Oral)
LD50 dermal rat	4000 mg/kg (Rat, Literature study, Dermal)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Literature study, Dermal)
ATE US (oral)	230 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

carbaryl (63-25-2)	
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
diazinon (333-41-5)	
LD50 oral rat	> 300 mg/kg (Rat, Oral)
ATE US (oral)	500 mg/kg body weight
diuron (330-54-1)	
LD50 oral rat	4150 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5.05 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE US (oral)	500 mg/kg body weight
Trifluralin (1582-09-8)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	2000 mg/kg (Rabbit, Dermal)
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	700 ppmV/4h
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	: May cause genetic defects.
Carcinogenicity	: May cause cancer.

benzo[a]pyrene (50-32-8)	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

diazinon (333-41-5)	
IARC group	2A - Probably carcinogenic to humans

Trifluralin (1582-09-8)	
IARC group	3 - Not classifiable

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.

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

alachlor (15972-60-8)	
LC50 fish 1	1.8 mg/l (96 h, Salmo gairdneri)
azinphos-methyl (86-50-0)	
LC50 fish 1	0.004 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	0.003 mg/l (48 h, Daphnia pulex)
benzo[a]pyrene (50-32-8)	
LC50 fish 1	0.0056 mg/l (38 h, Pimephales promelas, Lethal)
carbaryl (63-25-2)	
LC50 fish 1	0.86 - 4.3 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	0.0064 mg/l (48 h, Daphnia pulex)
diazinon (333-41-5)	
LC50 fish 1	0.09 mg/l (96 h, Salmo gairdneri)
EC50 Daphnia 1	0.00096 mg/l (48 h, Daphnia magna)
diuron (330-54-1)	
LC50 fish 1	14.7 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	1.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
Trifluralin (1582-09-8)	
LC50 fish 1	0.21 mg/l (96 h, Salmo gairdneri, Acute)
EC50 Daphnia 1	0.56 mg/l (48 h, Daphnia magna, Hard water)
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)

12.2. Persistence and degradability

Pesticide Mix A	
Persistence and degradability	Not established.
alachlor (15972-60-8)	
Persistence and degradability	Biodegradability in soil: no data available.
atrazine (1912-24-9)	
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.
azinphos-methyl (86-50-0)	
Persistence and degradability	Not readily biodegradable in water.
benzo[a]pyrene (50-32-8)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
Chemical oxygen demand (COD)	2.92 g O ₂ /g substance
ThOD	2.92 g O ₂ /g substance
carbaryl (63-25-2)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0 g O ₂ /g substance
diazinon (333-41-5)	
Persistence and degradability	Not readily biodegradable in water.
diuron (330-54-1)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
Trifluralin (1582-09-8)	
Persistence and degradability	Biodegradability in soil: no data available.

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.2 g O ₂ /g substance
BOD (% of ThOD)	0.872 (20 day(s), Literature study)

12.3. Bioaccumulative potential

Pesticide Mix A	
Bioaccumulative potential	Not established.

atrazine (1912-24-9)	
BCF fish 1	3 - 4 (Cyprinus carpio)
BCF fish 2	3 - 10 (Pisces)
BCF other aquatic organisms 1	52 (24 h, Chlorella sp.)
BCF other aquatic organisms 2	10 - 83 (Algae)
Log Pow	2.64
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

azinphos-methyl (86-50-0)	
Log Pow	2.99
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

benzo[a]pyrene (50-32-8)	
BCF fish 1	480 (72 h, Leuciscus idus)
BCF fish 2	70.7 (168 h, Salmo salar, Eggs)
BCF other aquatic organisms 1	3000 (192 h, Crassostrea sp.)
BCF other aquatic organisms 2	1.5 (24 h, Daphnia magna)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

carbaryl (63-25-2)	
BCF fish 1	140 (Ictalurus punctatus)
BCF other aquatic organisms 1	4000 (Algae)
BCF other aquatic organisms 2	260 (Crustacea)
Log Pow	2.32 - 2.36
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

diazinon (333-41-5)	
BCF fish 1	7 - 46.9 (Cyprinus carpio, Test duration: 6 weeks)
BCF fish 2	470 - 540 (672 h, Lepomis macrochirus)
Log Pow	3.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

diuron (330-54-1)	
BCF fish 1	< 14 (Cyprinus carpio, Chronic)
BCF fish 2	174 - 305 (Pisces)
BCF other aquatic organisms 1	5.2 (OECD 305: Bioconcentration: Flow-Through Fish Test, 42 day(s), Mytilus edulis, Flow-through system, Salt water, Experimental value)
Log Pow	2.68 - 2.96
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Trifluralin (1582-09-8)	
BCF fish 1	3142 (Pseudorasbora parva)
BCF fish 2	6000 (Phoxinus phoxinus)
Log Pow	5.07
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

acetone (67-64-1)	
BCF fish 1	0.69 (Pisces)

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

acetone (67-64-1)	
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

alachlor (15972-60-8)	
Ecology - soil	Not toxic to bees in normal conditions of use.
atrazine (1912-24-9)	
Ecology - soil	Toxic to flora. Not toxic to bees.
azinphos-methyl (86-50-0)	
Ecology - soil	Toxic to bees.
benzo[a]pyrene (50-32-8)	
Ecology - soil	Adsorbs into the soil.
carbaryl (63-25-2)	
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Toxic to bees.
diuron (330-54-1)	
Surface tension	72.1 mN/m (20 °C, Aqueous solution, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	Low potential for adsorption in soil.
Trifluralin (1582-09-8)	
Ecology - soil	Adsorbs into the soil. Not toxic to bees.
acetone (67-64-1)	
Surface tension	0.0237 N/m
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

Pesticide Mix A	
alachlor (15972-60-8)	
atrazine (1912-24-9)	
azinphos-methyl (86-50-0)	
benzo[a]pyrene (50-32-8)	
carbaryl (63-25-2)	
diazinon (333-41-5)	
diuron (330-54-1)	
Trifluralin (1582-09-8)	
acetone (67-64-1)	

Other information : Avoid release to the environment.

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

- Transport document description : UN1090 Acetone (acetone ; alachlor ; atrazine ; azinphos-methyl ; benzo[a]pyrene ; diazinon ;), 3, II
UN-No.(DOT) : UN1090
Proper Shipping Name (DOT) : Acetone
acetone ; alachlor ; atrazine ; azinphos-methyl ; benzo[a]pyrene ; diazinon ;
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT) : II - Medium Danger
Hazard labels (DOT) : 3 - Flammable liquid



- DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT 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..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number : 127
Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

- Transport document description (IMDG) : UN 1090 ACETONE (acetone ; alachlor ; atrazine ; azinphos-methyl ; benzo[a]pyrene ; diazinon ; Trifluralin), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (-20°C c.c.)
UN-No. (IMDG) : 1090
Proper Shipping Name (IMDG) : ACETONE
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : II - substances presenting medium danger
Limited quantities (IMDG) : 1 L

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Air transport

Transport document description (IATA)	: UN 1090 Acetone (acetone ; alachlor ; atrazine ; azinphos-methyl ; benzo[a]pyrene ; diazinon ;), 3, II, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	: 1090
Proper Shipping Name (IATA)	: Acetone
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

alachlor (15972-60-8)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

atrazine (1912-24-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

azinphos-methyl (86-50-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	1 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 10lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

benzo[a]pyrene (50-32-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	1 lb
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carbaryl (63-25-2)

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	100 lb
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diazinon (333-41-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	1 lb
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diuron (330-54-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
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Trifluralin (1582-09-8)

Not 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
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acetone (67-64-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

alachlor (15972-60-8)
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)
atrazine (1912-24-9)
Listed on the Canadian DSL (Domestic Substances List)
azinphos-methyl (86-50-0)
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)
benzo[a]pyrene (50-32-8)
Listed on the Canadian DSL (Domestic Substances List)
carbaryl (63-25-2)
Listed on the Canadian NDSL (Non-Domestic Substances List)
diazinon (333-41-5)
Listed on the Canadian DSL (Domestic Substances List)
diuron (330-54-1)
Listed on the Canadian DSL (Domestic Substances List)
Trifluralin (1582-09-8)
Listed on the Canadian DSL (Domestic Substances List)
acetone (67-64-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

benzo[a]pyrene (50-32-8)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
carbaryl (63-25-2)
Listed on EPA Hazardous Air Pollutant (HAPS)
diazinon (333-41-5)
Listed on IARC (International Agency for Research on Cancer)
Trifluralin (1582-09-8)
Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

alachlor (15972-60-8)					
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		
atrazine (1912-24-9)					
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)
No	Yes	Yes	Yes		100 µg/day (oral)

Pesticide Mix A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

benzo[a]pyrene (50-32-8)					
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	0.06 µg/day	
carbaryl (63-25-2)					
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	Yes	Yes	Yes		
diuron (330-54-1)					
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		

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
H340	May cause genetic defects
H350	May cause cancer

Phenova US SDS REV

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