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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliobond™ 25
ADHESIVE
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : ADHESIVE

Details of the supplier of the safety data sheet Ashland P.O. Box 2219 Columbus, OH 43216 United States of America (USA) 1-614-790-3333 (USA) EHSProductSafety@ashland.com	Emergency telephone number 1-800-ASHLAND (1-800-274-5263) Regulatory information 1-614-790-3333 (customer service) Product Information 1-614-790-3333 (USA)
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Skin irritation : Category 2


Eye irritation : Category 2A

Germ cell mutagenicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Skin, Nervous system, Liver, Kidney)

GHS label elements

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Hazard pictograms

:



Signal Word


: Danger

Hazard Statements

: Highly flammable liquid and vapor.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.
 Suspected of causing genetic defects.
 May cause damage to organs (Skin, Nervous system, Liver, Kidney) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe mist or vapors.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/ attention.
 If skin irritation occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:

 Ashland always solving		Page: 3
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Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards


None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Defatter

Hazardous components


Chemical name	CAS-No.	Classification	Concentration (%)
ACETONE	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	71.76
METHYL ETHYL KETONE	78-93-3	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	4.7508
CALCIUM CARBONATE	471-34-1	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	2.8922
PHENOL	108-95-2	Comb Dust Acute Tox. 3; H301 Acute Tox. 3; H331	1.0272

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		Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Muta. 2; H341 STOT RE 2; H373	
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SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.
 If unconscious, place in recovery position and seek medical advice.
 Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
 If on skin, rinse well with water.
 Wash contaminated clothing before re-use.
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.
- If swallowed : Obtain medical attention.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
 Do not induce vomiting. Phenol concentrations greater than 1.5% produce irritation and greater than 5% are corrosive; vomiting can cause further damage to the mouth and throat.
 Do not dilute the swallowed material, since this may enhance its absorption. Seek immediate medical attention. If possible, do not leave the individual unattended. Vomiting and diarrhea may occur spontaneously.


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Most important symptoms and effects, both acute and delayed

: This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Ingestion of large amounts or other significant exposure to this material (or a component) may cause alkalosis. Excessive calcium intake may cause gastrointestinal symptoms, hypertension, hypercalcemia, kidney stones, and may inhibit absorption of iron, zinc, and possibly other trace elements. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Pulmonary edema may be delayed. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 Cough
 Headache
 low body temperature
 irregular heartbeat
 cyanosis (causes blue coloring of the skin and nails from lack of oxygen)
 lung edema (fluid buildup in the lung tissue)
 Convulsions
 respiratory failure
 Difficulty in breathing
 Causes skin irritation.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.
 Suspected of causing genetic defects.
 May cause damage to organs through prolonged or repeated exposure.

Notes to physician

: Phenol adsorbs to activated charcoal, and it maybe preferable to ipecac-induced emesis because seizures or coma may onset rapidly and because of the corrosive effects of phenol. A usual activated charcoal dose in adults is 30-100 g and in children is 15-30 g. Activated charcoal should be administered with, or followed by, a cathartic. If endoscopy is planned, charcoal may obscure visualization of affected areas. Gastric lavage may be indicated if it is performed soon after ingestion or in patients who are comatose or at risk of seizures. Monitor for seizures, metabolic acidosis and

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ventricular dysrhythmias.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
 Carbon monoxide
 Nitrogen oxides (NO_x)
 Hydrogen cyanide (hydrocyanic acid)
 Organic acids
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
 Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES


- Personal precautions, protective equipment and : Evacuate personnel to safe areas.
 Remove all sources of ignition.

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- emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
No sparking tools should be used.
Keep away from open flames, hot surfaces and sources of ignition.
Use only explosion-proof equipment.
- Static ignition hazard can result from handling and use.
Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.
- Advice on safe handling : Open drum carefully as content may be under pressure.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.

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Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 No smoking.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ACETONE	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m ³	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m ³	OSHA Z-1
		TWA	750 ppm 1,800 mg/m ³	OSHA P0
		STEL	1,000 ppm 2,400 mg/m ³	OSHA P0
		STEL	750 ppm 1,780 mg/m ³	CAL PEL
		C	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m ³	CAL PEL
METHYL ETHYL KETONE	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m ³	NIOSH REL
		ST	300 ppm	NIOSH REL

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			885 mg/m3	
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
		PEL	200 ppm 590 mg/m3	CAL PEL
		STEL	300 ppm 885 mg/m3	CAL PEL
CALCIUM CARBONATE	471-34-1	PEL	10 mg/m3 Total dust	CAL PEL
		PEL	5 mg/m3 respirable dust fraction	CAL PEL
		TWA	5 mg/m3 Respirable (Calcium carbonate)	NIOSH REL
		TWA	10 mg/m3 total (Calcium carbonate)	NIOSH REL
PHENOL	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m3	NIOSH REL
		C	15.6 ppm 60 mg/m3	NIOSH REL
		TWA	5 ppm 19 mg/m3	OSHA Z-1
		TWA	5 ppm 19 mg/m3	OSHA P0
		PEL	5 ppm 19 mg/m3	CAL PEL

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ACETONE	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ZUS_A CGIHB

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METHYL ETHYL KETONE	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ZUS_A CGIHB
PHENOL	108-95-2	Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g Creatinine	ZUS_A CGIHB

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Organic vapour type

Hand protection

Material : Laminate (Barrier© or Silvershield©)
 Break through time : 480 min
 Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.
 Wear resistant gloves (consult your safety equipment

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supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.
 When using do not eat or drink.
 When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Colour : tan

Odour : pungent

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : -20 °C
 Method: Seta closed cup

Evaporation rate : 1
 Ethyl Ether = 1

Upper explosion limit : Upper explosion limit
 not determined

Lower explosion limit : Lower explosion limit
 not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : 0.8577 (77.00 °F)

Density : 0.8577 g/cm³ (77.00 °F)

Solubility(ies)
 Water solubility : not determined



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Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : not determined

Thermal decomposition : No data available

Viscosity
 Viscosity, dynamic : 600 mPa.s

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : excessive heat

Heat, flames and sparks.

Incompatible materials : 1,3-butadiene
 Acids alkalis
 ammonium salts
 aluminum
 aluminum salts
 Amines
 Ammonia
 Copper
 Copper alloys
 halogenated hydrocarbons
 halogens
 Iron Lead
 magnesium
 peroxides
 Reducing agents
 strong alkalis

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Strong oxidizing agents

Zinc

Hazardous decomposition
products

Carbon dioxide (CO₂)

Carbon monoxide

calcium oxide

Hydrocarbons

Acetone

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:**ACETONE:**

Acute oral toxicity : LD50 (Rat, female): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 76 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 7,426 mg/kg

METHYL ETHYL KETONE:

Acute oral toxicity : LD50 (Rat): 2,300 - 3,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

CALCIUM CARBONATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420
Assessment: No adverse effect has been observed in acute
oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

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Method: OECD Test Guideline 403

Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity

: LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

PHENOL:

Acute oral toxicity

: LD50 (Rat): 317 mg/kg
 LD50 (Mouse): 270 mg/kg
 Assessment: The component/mixture is classified as acute oral toxicity, category 3.

Acute inhalation toxicity

: Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.

Acute dermal toxicity

: LD50 (Rabbit): 850 mg/kg
 LD50 (Rat, females): 660 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

Components:**ACETONE:**

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

METHYL ETHYL KETONE:

Result: No skin irritation

CALCIUM CARBONATE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

PHENOL:



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Result: Corrosive to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

ACETONE:

Result: Irritating to eyes.

METHYL ETHYL KETONE:

Result: Irritating to eyes.

CALCIUM CARBONATE:

Species: Rabbit

Result: Slight, transient irritation

Method: OECD Test Guideline 405

PHENOL:

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

CALCIUM CARBONATE:

Test Type: Local lymph node assay

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

PHENOL:

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Exposure routes: Dermal

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Result: negative



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Germ cell mutagenicity
Suspected of causing genetic defects.

Components:

CALCIUM CARBONATE:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test species: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

PHENOL:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test species: Chinese hamster ovary cells
Metabolic activation: with metabolic activation
Method: OECD Test Guideline 473
Result: positive

: Test Type: Micronucleus test
Test species: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test
Test species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: positive

Germ cell mutagenicity-
Assessment : In vitro tests showed mutagenic effects

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

ACETONE:

Exposure routes: Inhalation
Target Organs: Nervous system
Assessment: May cause drowsiness or dizziness.

METHYL ETHYL KETONE:

Assessment: May cause drowsiness or dizziness.

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STOT - repeated exposure

May cause damage to organs (Skin, Nervous system, Liver, Kidney) through prolonged or repeated exposure.

Components:

PHENOL:

Target Organs: Skin

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

ACETONE:

May be harmful if swallowed and enters airways.

METHYL ETHYL KETONE:

May be harmful if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

METHYL ETHYL KETONE:

Remarks: Central nervous system

PHENOL:

Remarks: Central nervous system

Remarks: Blood

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:**ACETONE:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,740 - 6,330 mg/l
 Exposure time: 96 h
 Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8,733 - 9,482 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to algae : NOEC (Microcystis aeruginosa (blue-green algae)): 530 mg/l
 Exposure time: 8 d
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2,112 mg/l
 Exposure time: 28 d
 Test Type: flow-through test

METHYL ETHYL KETONE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3,130 - 3,320 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,025 - 6,440 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Intoxication

CALCIUM CARBONATE:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): > 56,000 mg/l
Exposure time: 96 h
Test Type: static test

PHENOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.5 - 14 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 67.5 mg/l
Exposure time: 96 h
Test Type: flow-through test

LC50 (Danio rerio (zebra fish)): 27.8 mg/l
Exposure time: 96 h
Method: static test
Remarks: mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 3.1 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 61.1 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.077 mg/l
Exposure time: 60 d
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 16 d
Test Type: semi-static test

Persistence and degradability

Components:

ACETONE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90.9 %



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Exposure time: 28 d
Method: OECD Test Guideline 301B

PHENOL:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 62 %
Exposure time: 100 h
Method: OECD Test Guideline 301C

No data available
Bioaccumulative potential

Components:

ACETONE:
Partition coefficient: n-
octanol/water : log Pow: -0.24

METHYL ETHYL KETONE:
Partition coefficient: n-
octanol/water : log Pow: 0.29

PHENOL:
Partition coefficient: n-
octanol/water : log Pow: 1.46

No data available

Mobility in soil

Components:

PHENOL:
Distribution among
environmental compartments : Medium: Soil
Koc: > 14 - < 73 Method: OECD Test Guideline 121

No data available

Other adverse effects

No data available

Product:

Additional ecological
information : An environmental hazard cannot be excluded in the event of
unprofessional handling or disposal., Harmful to aquatic life
with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and
federal regulations.



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The product should not be allowed to enter drains, water
 courses or the soil.

Do not contaminate ponds, waterways or ditches with
 chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Empty containers should be taken to an approved waste
 handling site for recycling or disposal.
 Do not re-use empty containers.
 Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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MX_DG

UN 1133	ADHESIVOS	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1133	Adhesives	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1133	Adhesives	3		II	
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INTERNATIONAL MARITIME DANGEROUS GOODS


UN 1133	ADHESIVES	3		II	
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TDG_INWT_C

UN 1133	ADHESIVES	3		II	
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TDG_RAIL_C

UN 1133	ADHESIVES	3		II	
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TDG ROAD C

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

U.S. DOT - INLAND WATERWAYS

UN	1133	Adhesives	3	II
----	------	-----------	---	----

CFR RAIL C

UN	1133	Adhesives	3	II
----	------	-----------	---	----

U.S. DOT - ROAD

UN	1133	Adhesives	3	II
----	------	-----------	---	----

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.


EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ACETONE	67-64-1	5000	6967

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ORTHO CRESOL	95-48-7	100	38940

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SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Germ cell mutagenicity
 Specific target organ toxicity (single or repeated exposure)

SARA 302 :
 PHENOL 108-95-2 1.02 %

SARA 313 The following components are subject to reporting levels established by SARA Title III, Section 313:
 PHENOL 108-95-2 1.02 %

California Prop. 65

WARNING: This product can expose you to chemicals including benzene, formaldehyde, 4-vinylcyclohexene, acrylonitrile, 1,3-butadiene, which is/are known to the State of California to cause cancer, and benzene, 4-vinylcyclohexene, 1,3-butadiene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : Not in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- NZIoC : Not in compliance with the inventory

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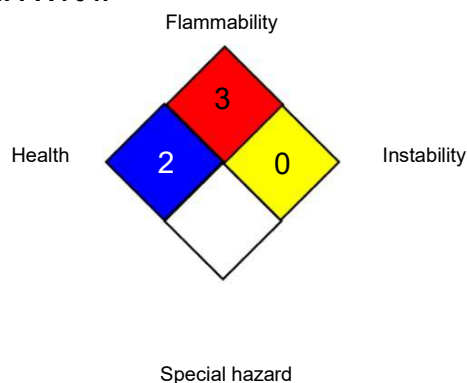
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Inventories

AIIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

Other regulations

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Banned and/or restricted

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****HMIS® IV:**

HEALTH		
FLAMMABILITY		
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of H-Statements

H225	Highly flammable liquid and vapor.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.


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- H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.
 H373 May cause damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Ashland. (<http://www.ashland.com>)
 The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

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Sources of key data used to compile the Safety Data Sheet : Ashland internal data including own and sponsored test reports
European Union Law with content from the Official Journal of the European Union.
European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.
The German Water Hazard Classes.
ReachCentrum; a series of support services to help comply with REACH regulations.
The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
Cefic, the European Chemical Industry Council.
ESIS European Chemical Substances Information System

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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.
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