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<b>SAFETY DATA SHEET</b>	Revision Date: 01/08/2018
	Print Date: 1/15/2018
	SDS Number: A-202
Pliobond™ 30 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 120274	Packaged and Marketed by: The Ruscoe Company 485 Kenmore Blvd Akron, OH 44301 Phone:330-253-8148 Toll Free:800-293-8148 Fax: 330-253-2933

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Pliobond™ 30  
ADHESIVE  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : Adhesives

<p><b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America (USA) 614-790-3333</p> <p>EHSProductSafety@ashland.com</p>	<p><b>Emergency telephone number</b> 1-800-ASHLAND (1-800-274-5263)</p> <p><b>Regulatory Information Number</b> 1-800-325-3751</p> <p><b>Product Information</b> 614-790-3333</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Flammable liquids : Category 2

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 1B

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

Specific target organ : Category 2 (Skin, Nervous system, Liver, Kidney)

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systemic toxicity - repeated  
 exposure

**GHS label elements**

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Highly flammable liquid and vapor.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause drowsiness or dizziness.  
 Suspected of causing genetic defects.  
 May cause cancer.  
 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 dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the  
 workplace.  
 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.

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IF exposed or concerned: Get medical advice/ attention.  
 If skin irritation or rash 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:**

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 (%)
METHYL ETHYL KETONE	78-93-3	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	67.2817
CALCIUM CARBONATE	471-34-1	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	3.8536
PHENOL	108-95-2	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311	1.5528

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		Skin Corr. 1; H314 Eye Dam. 1; H318 Muta. 2; H341 STOT RE 2; H373	
FORMALDEHYDE	50-00-0	Flam. Liq. 4; H227 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350	0.1941
BENZOTHIAZYL DISULFIDE	120-78-5	Skin Sens. 1; H317	0.12

#### 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.

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- 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.
- Most important symptoms and effects, both acute and delayed : 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  
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

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Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause drowsiness or dizziness.  
 Suspected of causing genetic defects.  
 May cause cancer.

## 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 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 (CO<sub>2</sub>)  
 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 and carbon monoxide  
 Hydrogen cyanide (hydrocyanic acid)  
 nitrogen oxides (NO<sub>x</sub>)  
 calcium oxide  
 acid vapors

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Specific extinguishing  
 methods

Product is compatible with standard fire-fighting agents.

Further information

: Do not use a solid water stream as it may scatter and spread fire.  
 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  
 emergency procedures

: Evacuate personnel to safe areas.  
 Remove all sources of ignition.  
 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 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.

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Do not breathe vapours/dust.  
 Do not smoke.  
 Persons susceptible to skin sensitisation problems or asthma,  
 allergies, chronic or recurrent respiratory disease should not  
 be employed in any process in which this mixture is being  
 used.  
 Container hazardous when empty.  
 Take precautionary measures against static discharges.  
 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.  
 Container may be opened only under exhaust ventilation  
 hood.

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.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
METHYL ETHYL KETONE	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m <sup>3</sup>	NIOSH REL
		ST	300 ppm 885 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 590 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 ppm 590 mg/m <sup>3</sup>	OSHA P0
		STEL	300 ppm 885 mg/m <sup>3</sup>	OSHA P0
		PEL	200 ppm	CAL PEL



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			590 mg/m3	
		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
FORMALDEHYDE	50-00-0	C	0.3 ppm	ACGIH
		TWA	0.016 ppm	NIOSH REL
		C	0.1 ppm	NIOSH REL
		PEL	0.75 ppm	OSHA CARC
		STEL	2 ppm	OSHA CARC
		PEL	0.75 ppm	CAL PEL
		STEL	2 ppm	CAL PEL
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
		C	0.1 ppm (Formaldehyde)	NIOSH REL

**Hazardous components without workplace control parameters**

Components	CAS-No.
BENZOTHIAZYL DISULFIDE	120-78-5

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis

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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** : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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

**Hand protection**

**Material** : natural rubber

**Remarks** : Nitrile rubber  
 The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**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 resistant gloves (consult your safety equipment supplier).  
 Wear as appropriate:

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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.

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 : viscous

Physical state : liquid

Colour : tan

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 174.9 °F / 79.4 °C  
(1013 hPa)

Flash point : -6 °C  
Method: Seta closed cup

Evaporation rate : < 1  
Ethyl Ether

Flammability (solid, gas) : No data available

Upper explosion limit : 12.0 %(V)

Lower explosion limit : 2.0 %(V)

Vapour pressure : ca. 121 hPa (25 °C)

Relative vapour density : > 1(Air = 1.0)

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Relative density : 0.894 (25 °C)

Density : 0.894 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
 Water solubility : slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n-  
 octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : ca. 7,000 mPa.s (25 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**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.  
 Formaldehyde reacts with peroxides, phenol, strong acids,  
 amines and strong oxidizing agents. Formaldehyde reacts  
 violently with nitrogen dioxide, nitromethane, perchloric acid,  
 perchloric acid-aniline mixtures, or peroxyformic acid to yield  
 explosive compounds. It reacts with hydrochloric acid or to  
 organic chlorides to form the carcinogen,  
 bis(chloromethyl)ether.

Conditions to avoid : excessive heat  
 Heat, flames and sparks.

Incompatible materials : 1,3-butadiene  
 ammonium salts  
 aluminum

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aluminum salts  
 Amines  
 Copper  
 Copper alloys  
 halogenated hydrocarbons  
 halogens  
 Iron Lead  
 magnesium  
 strong alkalis  
 strong mineral acids  
 Strong oxidizing agents  
 Zinc

Hazardous decomposition products

acid vapors  
 calcium oxide  
 carbon dioxide and carbon monoxide

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## 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:**

#### 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  
 Method: OECD Test Guideline 403  
 Assessment: Not classified as acutely toxic by inhalation under GHS.

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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  
 Method: OECD Test Guideline 402

FORMALDEHYDE:  
 Acute oral toxicity : LD50 (Guinea pig): 260 mg/kg  
 LD50 (Rat): 100 mg/kg  
 LD50 (Rat, male): 800 mg/kg  
 Assessment: The component/mixture is classified as acute  
 oral toxicity, category 3.

Acute inhalation toxicity : LC50 (Rat): 588 mg/m3  
 Exposure time: 4 h  
 Test atmosphere: gas  
 Assessment: The component/mixture is classified as acute  
 inhalation toxicity, category 2.

Acute dermal toxicity : LD50 (Rabbit): 288 mg/kg

BENZOTHIAZYL DISULFIDE:  
 Acute oral toxicity : LD50 (Rat): > 12 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

**Skin corrosion/irritation**  
 Causes skin irritation.

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**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

METHYL ETHYL KETONE:

Result: No skin irritation

CALCIUM CARBONATE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

PHENOL:

Result: Corrosive to skin

FORMALDEHYDE:

Species: Rat

Exposure time: 40 min

Result: Corrosive after 3 minutes to 1 hour of exposure

BENZOTHIAZYL DISULFIDE:

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Products:**

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

**Components:**

METHYL ETHYL KETONE:

Result: Irritating to eyes.

CALCIUM CARBONATE:

Species: Rabbit

Result: Slight, transient irritation

Method: OECD Test Guideline 405

PHENOL:

Result: Corrosive

FORMALDEHYDE:

Result: Corrosive

BENZOTHIAZYL DISULFIDE:

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Result: Slight, transient irritation

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:****CALCIUM CARBONATE:**

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

**FORMALDEHYDE:**

Assessment: The product is a skin sensitiser, sub-category 1A.

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Test Type: Buehler Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

Result: Causes sensitisation.

**BENZOTHIAZYL DISULFIDE:**

Assessment: May cause sensitisation by skin contact.

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



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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

FORMALDEHYDE:  
 Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium  
 Metabolic activation: without metabolic activation  
 Result: positive

: Test Type: Chromosome aberration test in vitro  
 Test species: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Result: positive

: Test Type: In vitro mammalian cell gene mutation test  
 Test species: Chinese hamster fibroblasts  
 Metabolic activation: with and without metabolic activation  
 Result: negative

: Test Type: in vitro assay  
 Test species: Human lymphocytes  
 Metabolic activation: with and without metabolic activation  
 Result: Conflicting results have been seen in different studies.

Genotoxicity in vivo : Test Type: Micronucleus test  
 Test species: Mouse  
 Application Route: Oral  
 Result: negative

Test Type: Micronucleus test  
 Test species: Mouse  
 Application Route: inhalation (gas)

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Result: negative

Test Type: in vivo assay  
 Test species: Rat  
 Application Route: inhalation (gas)  
 Result: negative

Test Type: Mouse specific locus test  
 Test species: Mouse  
 Application Route: inhalation (gas)  
 Result: negative

Test Type: Mammalian bone marrow sister chromatid  
 exchange  
 Test species: Rat  
 Application Route: inhalation (gas)  
 Result: negative

Test Type: comet assay  
 Test species: Rat  
 Application Route: inhalation (gas)  
 Result: negative

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects which were not observed with in vivo test.

**Carcinogenicity**  
 May cause cancer.

**Components:**  
 FORMALDEHYDE:  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

Species: Mouse  
 Application Route: Dermal  
 Result: negative

Species: Rat  
 Application Route: Inhalation  
 Result: positive

Carcinogenicity - Assessment : Presumed to have carcinogenic potential for humans

**Reproductive toxicity**  
 Not classified based on available information.

**Components:**

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**FORMALDEHYDE:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Species: Rat  
Result: No teratogenic effects**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:****METHYL ETHYL KETONE:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**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.

**Repeated dose toxicity****Components:****FORMALDEHYDE:**

Species: Rat

No observed adverse effect level: 82 mg/kg

Application Route: Ingestion

Species: Rat

No observed adverse effect level: 1.2 mg/m<sup>3</sup>

Application Route: inhalation (gas)

Target Organs: Nose, Upper respiratory tract

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Components:****METHYL ETHYL KETONE:**

May be harmful if swallowed and enters airways.

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**Further information****Products:**

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**

Group 1: Carcinogenic to humans

FORMALDEHYDE 50-00-0

**OSHA**

OSHA specifically regulated carcinogen

FORMALDEHYDE 50-00-0

**NTP**

Known to be human carcinogen

FORMALDEHYDE 50-00-0

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

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

**Components:**

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  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Ceriodaphnia dubia)): 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

**FORMALDEHYDE:**

Toxicity to fish : LC50 (Striped bass (Morone saxatilis)): 6.7 mg/l  
 Exposure time: 96 h  
 Method: Static

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 29 mg/l  
 Exposure time: 48 h

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Method: Static  
 Remarks: Intoxication

EC50 (Daphnia pulex (Water flea)): 5.8 mg/l  
 Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus  
 subspicatus)): 4.89 mg/l  
 Exposure time: 72 h

Toxicity to bacteria : EC50 (activated sludge): 19 mg/l  
 Exposure time: 3 h  
 Test Type: Respiration inhibition

**Persistence and degradability****Components:****PHENOL:**

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

**FORMALDEHYDE:**

Biodegradability : aerobic  
 Result: Readily biodegradable.  
 Biodegradation: 90 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D

aerobic  
 Result: Readily biodegradable.  
 Biodegradation: > 90 %  
 Exposure time: 2 Weeks  
 Method: OECD Test Guideline 301C

Photodegradation :

No data available

**Bioaccumulative potential****Components:****METHYL ETHYL KETONE:**

Partition coefficient: n-  
 octanol/water : log Pow: 0.29

**PHENOL:**

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

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**FORMALDEHYDE:**

Bioaccumulation

: Remarks: No bioaccumulation is to be expected (log Pow &lt;= 4).

Partition coefficient: n-octanol/water

: log Pow: 0.35 (25 °C)

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects****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:****FORMALDEHYDE:**

Results of PBT and vPvB assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice

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

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.

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**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	
---------	-----------	---	--	----	--

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

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

**INTERNATIONAL MARITIME DANGEROUS GOODS**

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

**TDG\_INWT\_C**

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

**TDG\_RAIL\_C**

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

**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**



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UN	1133	Adhesives	3	II
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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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****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
METHYL ETHYL KETONE	78-93-3	5000	7431

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ORTHO CRESOL	95-48-7	100	25760
ORTHO CRESOL	95-48-7		25760

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**SARA 313**

PHENOL	108-95-2	1.55 %
FORMALDEHYDE	50-00-0	0.19 %

**California Prop 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

FORMALDEHYDE	50-00-0
VINYLCYCLOHEXENE, 4-	100-40-3
ACRYLONITRILE	107-13-1
1,3, BUTADIENE	106-99-0

WARNING: This product contains a chemical known to the

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State of California to cause birth defects or other reproductive  
 harm.

VINYLCYCLOHEXENE, 4- 100-40-3

1,3, BUTADIENE 106-99-0

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or 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

TSCA : On TSCA Inventory

**Inventories**

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

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date: 01/08/2017

NFPA:

HMIS III:

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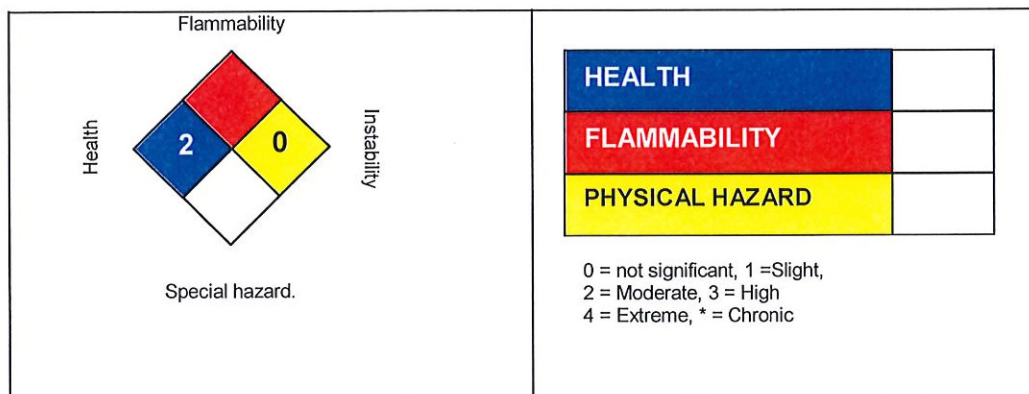
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**NFPA Flammable and Combustible Liquids Classification**  
 Flammable Liquid Class IB

**Full text of H-Statements**

H225	Highly flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for  
 labelling (GHS) and transport.

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

	
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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).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know

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WHMIS : Workplace Hazardous Materials Information System