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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliogrip™ 1010C CART

ADHESIVE

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Adhesives

Industrial chemical

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	, , , , , , , , , , , , , , , , , , ,
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Skin corrosion : Category 1A

Serious eye damage : Category 1

Skin sensitization : Category 1

Specific target organ systemic toxicity - single

exposure

: Category 3 (Respiratory system)

GHS Label element

Hazard pictograms







Signal Word : Danger

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Hazard Statements : Highly flammable liquid and vapor.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

Precautionary Statements

: Prevention:

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. Avoid breathing 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing 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

PART A

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Substance / Mixture : Mixture

Hazardous components

Hazardous components				
Chemical Name	CAS-No.	Classification	Concentration (%)	
ACRYLATE STYRENE COPOLYMER	800986-5738P	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 Aquatic Chronic 4; H413	>= 20.00 - < 30.00	
ORGANIC ACRYLATES	254504001-5624	Skin Sens. 1; H317 STOT SE 3; H335	>= 1.00 - < 1.50	
WAX	800986-5065P	Not a hazardous substance or mixture.	>= 1.00 - < 1.50	

The identity of one or more component(s) is being withheld under business confidentiality.

80-62-6	Flam. Liq. 2; H225	56.30
	Skin Irrit. 2; H315	
	Skin Sens. 1B; H317	
	STOT SE 3; H335	
79-41-4	Flam. Liq. 4; H227	5.00
	Acute Tox. 4; H302	
	Acute Tox. 3; H311	
	Skin Corr. 1A; H314	
	Eye Dam. 1; H318	
	STOT SE 3; H335	
		Skin Irrit. 2; H315 Skin Sens. 1B; H317 STOT SE 3; H335 79-41-4 Flam. Liq. 4; H227 Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318

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DIMETHYL-N,N P-TOLUIDINE	99-97-8	Flam. Liq. 4; H227	0.68
		Acute Tox. 4; H302	
		Acute Tox. 2; H330	
		STOT RE 2; H373	
		Aquatic Acute 3; H402	
		Aquatic Chronic 3; H412	

PART B

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
SILICA	254504001-5937		>= 1.50 - < 5.00

The identity of one or more component(s) is being withheld under business confidentiality.

BENZOYL PEROXIDE		Org. Perox. B; H241 Eye Irrit. 2A; H319 Skin Sens. 1; H317	14.10
TITANIUM DIOXIDE (TIO2)	13463-67-7	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	5.00

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ZINC STEARATE	557-05-1		1.69
CALCIUM SULFATE		Not a hazardous substance or mixture.	1.12

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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 : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

If swallowed : Get medical attention immediately.

Do NOT induce vomiting. Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

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 Dizziness Drowsiness

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effects on memory loss of appetite Shortness of breath pain in the hands and feet Difficulty in breathing

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

Causes severe burns.

Notes to physician : No hazards which require special first aid measures.

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 and carbon monoxide

toxic fumes
Hydrocarbons
hydrogen chloride
Carbon monoxide
Organic acids
Aldehydes

various hydrocarbons acrid smoke and fumes undefined organics

zinc oxide

Alcohols

Nitrogen oxides (NOx) sulfur compounds

Specific extinguishing

methods

:

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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.

Polymerization will take place under fire conditions. If polymerization occurs in a closed container, there is a possibility it will rupture violently. Cool storage container with

water, if exposed to fire.

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.

Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma,

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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.

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.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

PARIA				
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
WAX	800986- 5065P	TWA	2 mg/m3 Fume.	ACGIH
		REL	2 mg/m3 Fume.	NIOSH/GUID E
		TWA	2 mg/m3 Fume.	Z1A
	i	i	•	•
METHYLMETHACRYLATE	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		REL	100 ppm 410 mg/m3	NIOSH/GUID E
		PEL	100 ppm 410 mg/m3	OSHA_TRA NS
		TWA	50 ppm	ACGIHLIS_P
		STEL	100 ppm	ACGIHLIS_P
METHACRYLIC ACID	79-41-4	TWA	20 ppm	ACGIH
		REL	20 ppm 70 mg/m3	NIOSH/GUID E

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PART B

PART B				
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SILICA	254504001- 5937	REL	6 mg/m3	NIOSH/GUID E
		TWA	0.8 mg/m3	Z3
DENZOVI DEDOVIDE	104000	I T) A / A	F/ 0	1 400111
BENZOYL PEROXIDE	94-36-0	TWA REL	5 mg/m3 5 mg/m3	ACGIH NIOSH/GUID
		KEL	5 mg/ms	E
		PEL	5 mg/m3	OSHA_TRA NS
		TWA	5 mg/m3	Z1A
TITANIUM DIOXIDE (TIO2)	13463-67-7	TWA	10 mg/m3	ACGIH
		PEL	15 mg/m3	OSHA_TRA
		T\\\\\	Total dust.	NS ACCULIES D
		TWA	1 mg/m3 Respirable fraction.	ACGIHLIS_P
ZINC STEARATE	557-05-1	REL	10 mg/m3 Total	NIOSH/GUID E
		REL	5 mg/m3 Respirable.	NIOSH/GUID E
		PEL	5 mg/m3 Respirable fraction.	OSHA_TRA NS
		PEL	15 mg/m3 Total dust.	OSHA_TRA NS
		TWA	10 mg/m3	ACGIH
		TWA	5 mg/m3 Respirable fraction.	TN OEL
		TWA	10 mg/m3 Total dust.	TN OEL
CALCIUM SULFATE	7778-18-9	TWA	10 mg/m3 Inhalable fraction.	ACGIH
		REL	10 mg/m3 Total	NIOSH/GUID E
		REL	5 mg/m3 Respirable.	NIOSH/GUID E
		PEL	15 mg/m3 Total dust.	OSHA_TRA NS
		PEL	5 mg/m3 Respirable fraction.	OSHA_TRA NS
		TWA	5 mg/m3 Respirable fraction.	TN OEL

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TWA	15 mg/m3 Total dust.	TN OEL
TWA	5 mg/m3 Respirable fraction.	Z1A
TWA	15 mg/m3 Total dust.	Z1A

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.

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.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles and face shield when there is

potential for exposure of the eyes or face to liquid, vapor or

mist.

Maintain eye wash station in immediate work area.

Skin and body protection : Wear as appropriate:

impervious clothing Chemical resistant apron

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

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink.

Ensure that eyewash stations and safety showers are close to

the workstation location.

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When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PART A

Appearance : viscous

Physical state : liquid

Odour : acrylic-like

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : $> 210 \, ^{\circ}\text{F} / > 99 \, ^{\circ}\text{C}$

Flash point : 62.1 °F / 16.7 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : > 1(Air = 1.0)

Relative density : No data available

Density : > 0.96 g/cm3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : > 140.000 mPa.s

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Viscosity, kinematic : No data available

Oxidizing properties : No data available

PART B

Appearance : viscous

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

: No data available

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 1.15 g/cm3 (20 °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 : > 140.00 mPa.s

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Viscosity, kinematic : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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

: Hazardous polymerisation may occur.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

temperature extremes Exposure to sunlight. Exposure to moisture Exposure to light.

Incompatible materials : Acids

alkalis aluminum Amines

Combustible material

nitrates

Oxidizing agents

Oxygen peroxides

Reducing agents strong alkalis Strong bases UV light. Peroxides

Hazardous decomposition

products carbon dioxide and carbon monoxide

Hydrocarbons

Nitrogen oxides (NOx) sulfur compounds

toxic fumes

undefined organics

zinc oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation exposure Skin contact

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Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

SILICA:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

ORGANIC ACRYLATES:

Acute oral toxicity : LD50 (Rat): 8,700 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

WAX:

Acute oral toxicity : LD 50 (Rat, Female): > 5,000 mg/kg

Method: OECD Test Guideline 420

GLP: yes

Acute dermal toxicity : LD 50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Components:

METHYLMETHACRYLATE:

Acute oral toxicity : LD 50 (Rat): 7,800 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 29.8 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

BENZOYL PEROXIDE:

Acute oral toxicity : LD 50 (Rat, male): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 24.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

METHACRYLIC ACID:

Acute oral toxicity : LD 50 (Mouse): 1,250 mg/kg

LD 50 (Rat, male): 1,320 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity : LD 50 (Rat): 7.1 mg/l

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Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Aerosol

Acute dermal toxicity : LD 50 (Rabbit): 500 - 1,000 mg/kg

ZINC STEARATE:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Assessment: No adverse effect has been observed in acute

oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat): 200 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

CALCIUM SULFATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by ingestion under

GHS.

Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 2.61 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation

under GHS

Remarks: No mortality observed at this dose.

DIMETHYL-N,N P-TOLUIDINE:

Acute oral toxicity : LD 50 (Rat): 1,650 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 1.4 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye

damage.

Remarks: Individuals with direct skin contact with methyl methacrylate have experienced temporary loss of feeling and mild nerve damage in the fingers.

Components:

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ACRYLATE STYRENE COPOLYMER:

Result: Irritating to skin

SILICA:

Result: Not irritating to skin

ORGANIC ACRYLATES: Result: Slightly irritating to skin

WAX:

Result: Not irritating to skin

Components:

METHYLMETHACRYLATE: Result: Irritating to skin

BENZOYL PEROXIDE:

Method: OECD Test Guideline 404

Result: Not irritating to skin

METHACRYLIC ACID:

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes or less of exposure

ZINC STEARATE: Species: Rabbit Method: Draize Test

Result: Not irritating to skin

CALCIUM SULFATE: Species: Rabbit

Result: Not irritating to skin

DIMETHYL-N,N P-TOLUIDINE: Result: Mildly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

ACRYLATE STYRENE COPOLYMER:

Result: Irritating to eyes

SILICA:

Result: Not irritating to eyes

ORGANIC ACRYLATES: Result: Not irritating to eyes

WAX:

Result: Not irritating to eyes

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Components:

METHYLMETHACRYLATE: Result: Slightly irritating to eyes

BENZOYL PEROXIDE: Result: Irritating to eyes

METHACRYLIC ACID: Result: Corrosive to eyes

ZINC STEARATE: Species: Rabbit

Result: Not irritating to eyes

CALCIUM SULFATE: Species: Rabbit

Result: Not irritating to eyes

Method: OECD Test Guideline 405

DIMETHYL-N,N P-TOLUIDINE: Result: Mildly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

ORGANIC ACRYLATES:

Test Type: Local lymph node assay

Species: Mouse

Assessment: May cause sensitization by skin contact.

Method: OECD Test Guideline 406

Components:

METHYLMETHACRYLATE:

Test Type: Local lymph node assay

Species: Mouse

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

Method: OECD Test Guideline 429

BENZOYL PEROXIDE:

Assessment: May cause sensitization by skin contact.

METHACRYLIC ACID: Test Type: Buehler Test Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

ZINC STEARATE:

Assessment: Does not cause skin sensitisation.

CALCIUM SULFATE:

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Test Type: Buehler Test Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

DIMETHYL-N,N P-TOLUIDINE:

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

ORGANIC ACRYLATES:

Genotoxicity in vitro : Result: Conflicting results have been seen in different studies.

Remarks: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

Components:

BENZOYL PEROXIDE:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: dominant lethal test

Test species: Mouse Result: negative

METHACRYLIC ACID:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid

exchange

Test species: Rat Cell type: Bone marrow

Method: OECD Test Guideline 475

Result: negative

ZINC STEARATE:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

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CALCIUM SULFATE:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

DIMETHYL-N,N P-TOLUIDINE:

Genotoxicity in vitro : Remarks: In vitro tests have shown mutagenic effects.

Carcinogenicity

Not classified based on available information.

Components:

BENZOYL PEROXIDE:

Remarks: Information taken from reference works and the literature.

DIMETHYL-N,N P-TOLUIDINE:

Result: positive

Remarks: see user defined free text

Reproductive toxicity

Not classified based on available information.

Components:

ORGANIC ACRYLATES:

Effects on fertility : Species: Rat

Application Route: Oral

Symptoms: No effects on reproduction parameters

Method: OECD Test Guideline 422

Effects on foetal : Species: Rat

development Application Route: Oral

Developmental Toxicity: No observed adverse effect level F1:

500 mg/kg body weight

Method: OECD Test Guideline 414

Components:

BENZOYL PEROXIDE:

Effects on fertility : Species: Rat

Application Route: Oral

Fertility: No observed adverse effect level (Mating/Fertility):

1,000 mg/kg body weight

Method: OECD Test Guideline 422

METHACRYLIC ACID:

Effects on fertility : Species: Rat

Application Route: Oral

Fertility: No observed adverse effect level (Mating/Fertility):

400 mg/kg body weight

Symptoms: No effects on fertility No effects on reproduction

parameters

Method: OECD Test Guideline 416

Effects on foetal development

: Species: Rabbit

Application Route: Oral

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Developmental Toxicity: No observed adverse effect level F1:

450 mg/kg body weight

Symptoms: No specific developmental abnormalities

Method: OECD Test Guideline 414

ZINC STEARATE:

Effects on foetal : Symptoms: No specific developmental abnormalities

development

DIMETHYL-N,N P-TOLUIDINE:

Effects on fertility : Remarks: see user defined free text

Effects on foetal : Remarks: see user defined free text

development

STOT - single exposure

May cause respiratory irritation.

Components:

ACRYLATE STYRENE COPOLYMER:

Assessment: May cause respiratory irritation.

ORGANIC ACRYLATES:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Components:

METHYLMETHACRYLATE:

Target Organs: Upper respiratory tract Assessment: May cause respiratory irritation.

METHACRYLIC ACID: Exposure routes: Inhalation Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

DIMETHYL-N,N P-TOLUIDINE: Exposure routes: Ingestion Target Organs: Blood

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

Repeated dose toxicity

Components:

ORGANIC ACRYLATES:

Species: Rat NOAEL: 300 mg/kg

Application Route: Oral

Method: OECD Test Guideline 422

Components:

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BENZOYL PEROXIDE:

Species: Rat

NOAEL: 1,000 mg/kg Application Route: Oral Exposure time: 28-day

Method: OECD Test Guideline 422

DIMETHYL-N,N P-TOLUIDINE:

LOAEL: 10 mg/kg Target Organs: Blood

Remarks: Substances that, on the basis of evidence from studies in experimental animals can be

presumed to have the potential to be harmful to human health following single exposure

Information taken from reference works and the literature.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: Solvents may degrease the skin.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

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

Components:

ACRYLATE STYRENE COPOLYMER:

Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

SILICA:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

ORGANIC ACRYLATES:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 15.95 mg/l

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Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Water flea (Daphnia magna)): 44.9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)):

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 5.05 mg/l

Exposure time: 21 d

End point: Reproduction Test Method: OECD Test Guideline 211

METHYLMETHACRYLATE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 130 mg/l

Exposure time: 96 h Method: Static

LC 50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 69 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae : EC 50 (Pseudokirchneriella subcapitata (algae)): > 110 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to fish (Chronic

toxicity)

: LC 50 (Danio rerio (zebra fish)): 33.7 mg/l

Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline 210

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 37 mg/l

Exposure time: 21 d

Test Type: flow-through test Method: OECD Test Guideline 211

BENZOYL PEROXIDE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.06 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: OECD Test Guideline 203

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Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 0.11 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : EC 50 (Pseudokirchneriella subcapitata (green algae)): 0.07

mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: 10

METHACRYLIC ACID:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): > 130 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l

End point: Biomass Exposure time: 72 h

Test Type: flow-through test Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): 10 mg/l

Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline 210

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 53 mg/l

Exposure time: 21 d

Test Type: flow-through test Method: OECD Test Guideline 211

ZINC STEARATE:

Toxicity to fish : (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): Calculated 0.768 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)):

Calculated 0.99 mg/l Exposure time: 72 h

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Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): 100 mg/l

Exposure time: 7 d

CALCIUM SULFATE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): > 1,970

ma/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: LC 50 (Daphnia magna (Water flea)): > 1,970 mg/l

Exposure time: 48 h Test Type: static test

LC 50 (Water flea (Ceriodaphnia dubia)): > 1,940 mg/l

Exposure time: 24 h Method: Static Remarks: Mortality

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 79

mg/l

End point: Growth inhibition Exposure time: 72 h

Remarks: No toxicity at the limit of solubility

DIMETHYL-N,N P-TOLUIDINE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 50 - 55.6

mg/l

Exposure time: 96 h Method: Flow through Remarks: Mortality

LC 50 (Fathead minnow (Pimephales promelas)): 52 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 15.3 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 24.37

mg/l

Exposure time: 72 h

Persistence and degradability

Components:

SILICA:

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

ORGANIC ACRYLATES:

Biodegradability : Result: Readily biodegradable

Biodegradation: 69 %

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Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: The 10 day time window criterion is not fulfilled.

METHYLMETHACRYLATE:

Biodegradability : Result: Readily biodegradable

Biodegradation: 94.3 % Exposure time: 14 d

Method: OECD Test Guideline 301C

BENZOYL PEROXIDE:

Biodegradability : Biodegradation: 68 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: The 10 day time window criterion is not fulfilled.

Result: Readily biodegradable Biodegradation: 100 % Exposure time: 21 d

Method: OECD Test Guideline 301C

Physico-chemical

removability

: Remarks: Readily eliminated from water

Stability in water : Degradation half life(DT50): 2.4 h (50 °C)

METHACRYLIC ACID:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable

Biodegradation: 87 % Exposure time: 28 d

ZINC STEARATE:

Biodegradability : Result: Readily biodegradable

CALCIUM SULFATE:

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

DIMETHYL-N,N P-TOLUIDINE:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 20 d

Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

ORGANIC ACRYLATES:

Bioaccumulation : Bioconcentration factor (BCF): 21.9

Remarks: Bioaccumulation is unlikely.

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Partition coefficient: n-

octanol/water

: log Pow: 2.4

METHYLMETHACRYLATE:

Partition coefficient: n-

octanol/water

: log Pow: 1.38

BENZOYL PEROXIDE:

Partition coefficient: n-

: log Pow: 3.46

octanol/water

METHACRYLIC ACID:

Bioaccumulation

: Bioconcentration factor (BCF): 1.0

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 0.93

ZINC STEARATE:

Bioaccumulation : Bioconcentration factor (BCF): 3.16

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 1.2

DIMETHYL-N,N P-TOLUIDINE:

Bioaccumulation : Bioconcentration factor (BCF): 33

Mobility in soil Components:

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., Very toxic to aquatic life.,

Harmful to aquatic life with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : 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.

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Dispose of in accordance with all applicable local, state and

federal regulations.

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

CLASS HAZARDS GROUP POLLUTANT LTD. QTY.

U.S. DOT - ROAD

UN	1133	Adhesives	3	II	LIMITED QUANTITY
	•	•		_	

U.S. DOT - RAIL

UN	1133	Adhesives	3	II	LIMITED QUANTITY

U.S. DOT - INLAND WATERWAYS

	UN	1133	Adhesives	3	II	LIMITED QUANTITY
Г						

TRANSPORT CANADA - ROAD

UN	1133	ADHESIVES	3	II	

TRANSPORT CANADA - RAIL

UN	1133	ADHESIVES	3	II	

TRANSPORT CANADA - INLAND WATERWAYS

UN	1133	ADHESIVES	3	II	

INTERNATIONAL MARITIME DANGEROUS GOODS

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UN	1133	ADHESIVES	3	II	MARINE POLLUTANT:(DIPROPYLEN E GLYCOL DIBENZOATE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1133	Adhesives	3	II	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1133	Adhesives	3	II	

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1133	ADHESIVOS	3	II	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes

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

PART A

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
METHYLMETHACRYLATE	80-62-6	1000	1776.041204

SARA 311/312 Hazards : Reactivity Hazard

Fire Hazard

Acute Health Hazard

SARA 313 Component(s)

80-62-6 80-62-6 56.30 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

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2-CHLORO-1,3- 126-99-8

BUTADIENE

TRANS-1,4- 110-57-6

DICHLOROBUT-2-ENE

1,3, BUTADIENE 106-99-0

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

TOLUENE 108-88-3

1,3, BUTADIENE 106-99-0

PART B

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 Component(s)

BENZOYL PEROXIDE 94-36-0 14.10 %

ZINC STEARATE 557-05-1 1.69 %

California Prop 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

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

TSCA : On TSCA Inventory

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

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

ENCS : Exempt

KECL : 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

Inventories

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

Registration: Trade Secret

Chemical Name	Identification number		
ACRYLATE STYRENE	800986-5738P		
COPOLYMER			
SILICA	254504001-5937		

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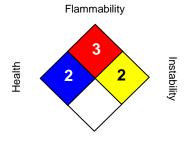
ORGANIC ACRYLATES	254504001-5624
WAX	800986-5065P

SECTION 16. OTHER INFORMATION

Further information

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PART A NFPA:



Special hazard.

HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	2

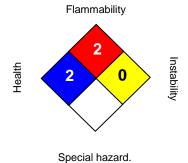
0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

PART B NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

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PART A	
H225	Highly flammable liquid and vapor.
H227	Combustible liquid.
H241	Heating may cause a fire or explosion.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
PART B	
H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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 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

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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

WHMIS: Workplace Hazardous Materials Information System