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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Hetron™ 92 FR

RESIN

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Recommended use of the chemical and restrictions on use

Use of the : Industrial chemical

Substance/Mixture

Details of the supplier of the safety data sheet Emergency telephone number 1-800-ASHLAND (1-800-274-526

Ashland

P.O. Box 2219

Columbus, OH 43216 United States of America

EHS Customer Requests@ashland.com

1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number

1-800-325-3751

Product Information

614-790-3333

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Combustible Dust :

Skin irritation : Category 2

Eye irritation : Category 2A

Germ cell mutagenicity : Category 1B

Reproductive toxicity : Category 2

Specific target organ

systemic toxicity - single

exposure

: Category 3 (Respiratory system)

Specific target organ

systemic toxicity - repeated

exposure (Inhalation)

: Category 1 (Auditory system)

GHS Label element

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Hazard pictograms







Signal Word Danger

Hazard Statements Flammable liquid and vapor.

May form combustible dust concentrations in air.

Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation. May cause genetic defects.

Suspected of damaging fertility or the unborn child.

Causes damage to organs (Auditory system) through prolonged

or repeated exposure if inhaled.

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.

Do not eat, drink or smoke when using this product.

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 or doctor/ physician if

you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsina.

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:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static Accumulating liquid

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Static Accumulator

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
STYRENE	100-42-5	Flam. Liq. 3; H226	32.26
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335	
		STOT RE 1; H372	
		Asp. Tox. 1; H304	
TRIETHYL PHOSPHATE	78-40-0	Acute Tox. 4; H302	2.10
		Eye Irrit. 2A; H319	
DIMETHYL METHANEPHOSPHONATE	756-79-6	Acute Tox. 4; H332	0.90
METHANELTIOOTTIONATE		Eye Irrit. 2A; H319	
		Muta. 1B; H340	
		Repr. 2; H361	

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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 INHALED: Call a POISON CENTER or doctor/ physician if

you feel unwell.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

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.

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)

confusion

Causes skin irritation.

Causes serious eye irritation.
May cause respiratory irritation.
May cause genetic defects.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

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.

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Water spray Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing media

: High volume water jet

Specific hazards during

firefighting

: Organic dusts at sufficient concentration can form explosive

mixtures in air.

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

: Hydrocarbons

carbon dioxide and carbon monoxide

Oxides of phosphorus

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.

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

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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.

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.

Secondary operations, such as grinding and sanding, may

produce dust.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in

order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible

Particulate Solids".

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.

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No smoking.

Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components with workplace to			Control	Dania
Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
		, ,	concentration	
STYRENE	100-42-5	TWA	20 ppm	ACGIH
		STEL	40 ppm	ACGIH
		REL	50 ppm	NIOSH/GUID
			215 mg/m3	E
		STEL	100 ppm	NIOSH/GUID
			425 mg/m3	E
		TWA	100 ppm	OSHA/Z2
		Ceiling	200 ppm	OSHA/Z2
		MAX. CONC	600 ppm	OSHA/Z2
TRIETHYL PHOSPHATE	78-40-0	TWA	1 ppm	WEEL
			7.45 mg/m3	

Biological occupational exposure limits

Diological occupa	tional exposul	C IIIIIII				
Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentrati	Basis
		paramotoro	оросинон		on	
STYRENE	100-42-5	styrene	Venous blood	Sampling time: End of shift.	0.2 mg/l	
Remarks:	Semi-quan	titative				
		Mandelic acid plus phenylglyox ylic acid	Creatinin e in urine	Sampling time: End of shift.	400 mg/g	
Remarks:	Nonspecific	2	•		•	

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.

Provide appropriate exhaust ventilation at places where dust

is formed.

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

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circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, airsupplied 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 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

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

Physical state : liquid

Odour : pungent

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 293 °F / 145 °C

Flash point : 84 °F / 29 °C

Method: Seta closed cup

Evaporation rate : No data available

Flammability (solid, gas) :

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May form combustible dust concentrations in air (during

processing).

Flammability (liquids) : Static Accumulating liquid

Flammability (liquids)

Upper explosion limit : 6.1 %(V)

Lower explosion limit : 1.1 %(V)

Vapour pressure : 8.53248 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : > 1AIR=1

Relative density : 1.28 (77.00 °F)

Density : 1.28 g/cm3 (77.0 °F)

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 : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

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

: Hazardous polymerisation may occur.

Vapours may form explosive mixture with air.

This product does not present a dust explosion hazard as delivered. However, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a

potential dust explosion hazard.

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Conditions to avoid : Heat, flames and sparks.

excessive heat Exposure to air. Exposure to sunlight.

Incompatible materials : Acids

aluminum

aluminum chloride

Bases Copper Copper alloys halogens iron chloride metal salts

Strong oxidizing agents

Peroxides

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

STYRENE:

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

Acute inhalation toxicity : LC 50 (Rat): 11.8 mg/l, 2770 ppm

Exposure time: 4 h
Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm

Exposure time: 7 h
Test atmosphere: vapour

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

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

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TRIETHYL PHOSPHATE:

Acute oral toxicity : LD 50 (Rat): 1,311 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 8.817 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD 50 (Rabbit): > 20 g/kg

DIMETHYL METHANEPHOSPHONATE:

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

Acute inhalation toxicity : LC50 (Rat): > 2.589 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD 50 (Rabbit): > 4,640 mg/kg

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

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:

STYRENE: Species: Rabbit Result: Irritating to skin

_

TRIETHYL PHOSPHATE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Not irritating to skin

DIMETHYL METHANEPHOSPHONATE:

Result: Mildly irritating 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:

STYRENE:

Result: Irritating to eyes

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Remarks: Vapour during processing may be irritating to the respiratory tract and to the eyes.

TRIETHYL PHOSPHATE:

Species: Rabbit

Result: Irritating to eyes

Method: OECD Test Guideline 405

DIMETHYL METHANEPHOSPHONATE:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: STYRENE:

Exposure routes: Skin contact

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Result: negative

Exposure routes: inhalation (vapour)

Species: Humans

Assessment: Does not cause respiratory sensitisation.

Result: negative

DIMETHYL METHANEPHOSPHONATE: Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

May cause genetic defects.

Components:

DIMETHYL METHANEPHOSPHONATE:

Genotoxicity in vitro : Test Type: in vitro assay

Result: Positive results were obtained in some in vitro tests.

Genotoxicity in vivo : Test Type: dominant lethal test

Test species: Mouse Result: positive

Germ cell mutagenicity-

: In vivo tests showed mutagenic effects

Assessment

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - : Styrene has been tested for carcinogenicity in rats and mice.
Assessment : Styrene caused lung tumors in mice only. These tumors are

not considered to be relevant to humans.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

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Components:

DIMETHYL METHANEPHOSPHONATE:

Reproductive toxicity - : Some evidence of adverse effects on sexual function and

Assessment fertility, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

STYRENE:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.

Components: STYRENE:

Exposure routes: inhalation (vapour) Target Organs: Auditory system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components: STYRENE: Species: Human 85 mg/m3

Application Route: inhalation (vapour)

Species: Human 615 mg/kg

Application Route: Skin contact

Aspiration toxicity

Not classified based on available information.

Components: STYRENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Solvents may degrease the skin.

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

STYRENE 100-42-5

OSHANo 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 Reasonably anticipated to be a human carcinogen

STYRENE 100-42-5

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

STYRENE:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): 4.02 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 4.7 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.9

mg/l

Exposure time: 72 h

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 1.01 mg/l

Exposure time: 21 d

Toxicity to bacteria : EC 50 (activated sludge): ca. 500 mg/l

Exposure time: 0.5 h

Toxicity to soil dwelling

organisms

: NOEC (Eisenia fetida (earthworms)): 34 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 207

TRIETHYL PHOSPHATE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): > 100 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

Toxicity to daphnia and other

aquatic invertebrates

: LC 50 (Water flea (Daphnia magna)): > 100 mg/l

Exposure time: 96 h Method: Static

Remarks: Mortality

Persistence and degradability

Components:

STYRENE:

Biodegradability : Result: Readily biodegradable

Biodegradation: > 60 % Exposure time: 10 d

Bioaccumulative potential

Components:

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STYRENE:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-

octanol/water

: log Pow: 2.96 (25 °C)

TRIETHYL PHOSPHATE:

Partition coefficient: n-

octanol/water

: log Pow: 0.80

Mobility in soil

Components:

STYRENE:

Distribution among : Koc: 352

environmental compartments

Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

Components:

STYRENE:

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 : 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.

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.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

UN	1866	Resin solution	3	III	

U.S. DOT - RAIL

UN	1866	Resin solution	3	III	

U.S. DOT - INLAND WATERWAYS

UN	1866	Resin solution	3	III	

TRANSPORT CANADA - ROAD

UN	1866	RESIN SOLUTION	3	III	

TRANSPORT CANADA - RAIL

UN	1866	RESIN SOLUTION	3	III

TRANSPORT CANADA - INLAND WATERWAYS

UN	1866	RESIN SOLUTION	3	III	

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1866	RESIN SOLUTION	3	III	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1866	Resin solution	3	III	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1866	Resin solution	3	III	

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1866	RESINA, SOLUCIONES DE	3	III

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
STYRENE	100-42-5	1000	3099.247193

SARA 311/312 Hazards : Reactivity Hazard

Chronic Health Hazard Acute Health Hazard

Fire Hazard

SARA 313 Component(s)

STYRENE 100-42-5 32.26 %

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

State of California to cause cancer.

BENZENE 71-43-2

FORMALDEHYDE 50-00-0

1,4-DIOXANE 123-91-1

ACETALDEHYDE 75-07-0

ETHYLENE OXIDE 75-21-8

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

harm.

BENZENE 71-43-2

TOLUENE 108-88-3

ETHYLENE OXIDE 75-21-8

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

TSCA : On TSCA Inventory

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DSL : This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

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

PICCS : Not in compliance with the inventory

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

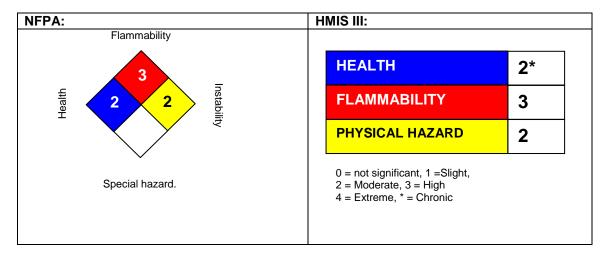
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IC

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

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation

H315

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H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H333	May be harmful if inhaled.	
H335	May cause respiratory irritation.	
H340	May cause genetic defects.	
H361	Suspected of damaging fertility or the unborn child.	
H361f	Suspected of damaging fertility.	
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.	

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

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

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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