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# 29 CFR 1910.1200 (OSHA HazCom 2012)

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Trade name

: FRP A 101 T-15

## Recommended use of the chemical and restrictions on use

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 3
Combustible Dust	:
Skin irritation	: Category 2
Eye irritation	: Category 2A
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	
Hazard pictograms	
Signal Word	: Danger

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Hazard Statements	:	Flammable liquid and vapor. May form combustible dust concentrations in air. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ ventilating/ lighting/ equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.</li> <li>Wash skin thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear protective gloves/ eye protection/ face protection.</li> <li>Response:</li> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Get medical advice/ attention if you feel unwell.</li> <li>If skin irritation occurs: Get medical advice/ attention.</li> <li>If eye irritation persists: Get medical advice/ attention.</li> <li>If eye irritation persists: Get medical advice/ attention.</li> <li>If eye irritation persists: Get medical advice/ attention.</li> <li>Take off contaminated clothing and wash before reuse.</li> <li>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Store in a well-ventilated place. Keep cool.</li> </ul>
Other hazards		

Static Accumulating liquid

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Static Accumulator

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## Chemical nature : Defatter

#### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
STYRENE	100-42-5	Flam. Liq. 3; H226	42.88
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335	
		STOT RE 1; H372	
		Asp. Tox. 1; H304	
		J	

# **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 you feel unwell. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice.	if
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.	

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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. 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 lo circumstances and the surrounding environment. Water spray Foam Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	ocal
Unsuitable extinguishing media	High volume water jet	
Specific hazards during firefighting	Organic dusts at sufficient concentration can form exp mixtures in air. Never use welding or cutting torch on or near drum (e 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 of courses.	even e
Hazardous combustion products	Hydrocarbons carbon dioxide and carbon monoxide	
Specific extinguishing methods		
	Product is compatible with standard fire-fighting agen	ıts.
Further information	Do not use a solid water stream as it may scatter and fire. Fire residues and contaminated fire extinguishing wat be disposed of in accordance with local regulations.	·

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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 : In the event of fire, wear self-contained breathing apparatus. for firefighters

## 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 pre Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static disch Avoid exposure - obtain special instructions befor Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited application area. For personal protection see section 8. Dispose of rinse water in accordance with local ar	n work rooms charges. ore use. ed in the
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	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	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>No smoking.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> </ul>

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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

# **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
STYRENE	100-42-5	styrene	Venous blood	Samplin g time: End of shift.	0.2 mg/l	
Remarks:	Semi-quant	titative				
		Mandelic acid plus	Creatinine in urine	Samplin g time:	400 mg/g	

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	phenylglyox End of ylic acid shift.	
Remarks:	onspecific	
Engineering measures	<ul> <li>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.</li> <li>Provide appropriate exhaust ventilation at places where dust is formed.</li> </ul>	
Personal protective equ	nent	
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 when there is the potential for exposure of the eyes to liquid, vapor or mist.	
Skin and body protection	<ul> <li>Wear as appropriate: impervious clothing Safety shoes</li> <li>Flame-resistant clothing</li> <li>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</li> <li>Discard gloves that show tears, pinholes, or signs of wear.</li> <li>Wear resistant gloves (consult your safety equipment supplier).</li> </ul>	
Hygiene measures	<ul> <li>Wash hands before breaks and at the end of workday.</li> <li>When using do not eat or drink.</li> <li>When using do not smoke.</li> </ul>	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Odour	: No data available

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- · - · · · ·	
Odour Threshold	: No data available
рН	: No data available
	: 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)	:
	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	: No data available
Relative density	: No data available
Density	: 1.090 g/cm3 (77.00 °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

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# 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 a delivered. However, fine dust dispersed in air in sufficie concentrations, and in the presence of an ignition sourc potential dust explosion hazard.	ent
Conditions to avoid	Heat, flames and sparks.	
	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	

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin contact Eye Contact Ingestion	
Acute toxicity Not classified based on availab <u>Components:</u> STYRENE:	e information.	
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	

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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.

#### Skin corrosion/irritation

Causes skin irritation. <u>Product:</u> 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

#### Serious eye damage/eye irritation

Causes serious eye irritation. <u>Product:</u> Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

## Components:

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

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. <u>Components:</u> 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

## Germ cell mutagenicity

Not classified based on available information. **Carcinogenicity** Not classified based on available information.

#### **Product:**

Carcinogenicity -Assessment : Styrene has been tested for carcinogenicity in rats and mice. Styrene caused lung tumors in mice only. These tumors are not considered to be relevant to humans.

#### **Reproductive toxicity**

Not classified based on available information. **STOT - single exposure** May cause respiratory irritation. <u>Components:</u> STYRENE: Assessment: May cause respiratory irritation.

## STOT - repeated exposure

Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled. <u>Components:</u> 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. <u>Components:</u> STYRENE: May be fatal if swallowed and enters airways.

# Further information

Product: Remarks: Solvents may degrease the skin.

Carcinogenicity: IARC	genicity: Group 2B: Possibly carcinogenic to humans	
	STYRENE	100-42-5
OSHA	No component of this product pre equal to 0.1% is identified as a ca carcinogen by OSHA.	
NTP	Reasonably anticipated to be a human carcinogen	
	STYRENE	100-42-5

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# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
<u>Components:</u> 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
Persistence and degradability	
<u>Components:</u> STYRENE:	
-	Result: Readily biodegradable Biodegradation: > 60 % Exposure time: 10 d
Bioaccumulative potential	
Components: STYRENE: Bioaccumulation :	Bioconcentration factor (BCF): < 100
	log Pow: 2.96 (25 °C)
Mobility in soil Components: STYRENE: Distribution among :	Koc: 352
-	

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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	<ul> <li>This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating</li> </ul>

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of in accordance with all applicable local, state and federal regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Do not re-use empty containers.</li> <li>Do not burn, or use a cutting torch on, the empty drum.</li> </ul>

# SECTION 14. TRANSPORT INFORMATION

# International transport regulations

## REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
		ULA33	TIAZARDS	GROUP	LTD. QTY.

## U.S. DOT - ROAD

UN	1866	Resin solution	3	III	

## U.S. DOT - RAIL

	UN	1866	Resin solution	3		
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JN	1866	Resin solution	3	III	
RANS	SPORT CA	NADA - ROAD			
UN	1866	RESIN SOLUTION	3	III	
<u>TRANS</u>	SPORT CA	NADA - RAIL			
UN	1866	RESIN SOLUTION	3	III	
TRANS	SPORT CA	NADA - INLAND WATERW	AYS		
UN	1866	RESIN SOLUTION	3	III	
		RESIN SOLUTION	3	111	
		RESIN SOLUTION	3	III	
UN	1866	RESIN SOLUTION		III	
UN	1866			III 	
UN NTERN	1866 NATIONA	L MARITIME DANGEROUS	GOODS		
UN NTERN	1866 NATIONA	L MARITIME DANGEROUS	GOODS		
UN NTERN UN	1866 NATIONA 1866	L MARITIME DANGEROUS RESIN SOLUTION	GOODS 3		
UN NTERN UN	1866 NATIONA 1866	L MARITIME DANGEROUS	GOODS 3		

#### **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

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

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

#### **CERCLA Reportable Quantity**

Components CAS-No. Component RQ Calculated product RQ	Components	CAS-No.	Component RQ	Calculated product RQ	
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		(lbs)	(lbs)
STYRENE	100-42-5	1000	2331.986223
SARA 311/312 Hazards :	Reactivity Hazard Acute Health Hazard Fire Hazard Chronic Health Haz		
SARA 313 Component(s)	STYRENE	100-42-5	42.88 %
California Prop 65	WARNING! This pro State of California to BENZENE		hemical known to the
	CATECHOL	120-80-9	
			hemical known to the cts or other reproductive
	METHANOL	67-56-1	
	BENZENE	71-43-2	
	TOLUENE	108-88-3	6
The components of this produce TSCA	ct are reported in the On TSCA Inventory	e following inven	tories:
DSL :	All components of th	nis product are on	the Canadian DSL.
AUSTR :	On the inventory, or	in compliance wit	h the inventory
ENCS :	On the inventory, or	in compliance wit	h the inventory
KECL :	On the inventory, or	in compliance wit	h the inventory
PICCS :	Not in compliance w	vith the inventory	
IECSC :	On the inventory, or	in compliance wit	h the inventory
luccontenie e			

# Inventories

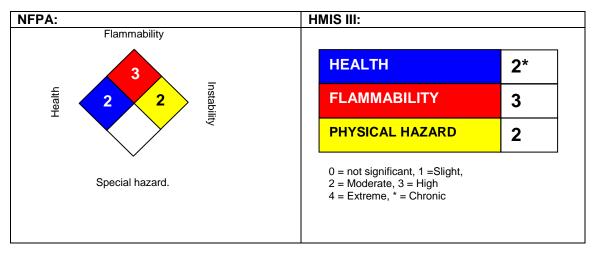
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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## **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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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

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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

WHMIS : Workplace Hazardous Materials Information System