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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

 Jaypol™ HS60 scale inhibitor
 ™ Trademark, Ashland or its subsidiaries, registered in various countries

Recommended use of the chemical and restrictions on use

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture



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Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES		
General advice	: No hazards which require special first aid measures.	
If inhaled	 If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. 	
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.	
In case of eye contact	: Remove contact lenses. Protect unharmed eye.	
If swallowed	 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	: No symptoms known or expected.	
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 Carbon dioxide (CO2) Dry chemical 	
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or wate courses.	ər
Hazardous combustion	: carbon dioxide and carbon monoxide	

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products	Nitrogen oxides (NOx) Sulphur oxides metal oxides
Specific extinguishing methods	:
	Product is compatible with standard fire-fighting agents.
Further information	: Standard procedure for chemical fires.
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	: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.	
Environmental precautions	: Prevent further leakage or spillage if safe to do so.	
Methods and materials for containment and cleaning up	: Keep in suitable, closed containers for disposal.	
Other information	: Comply with all applicable federal, state, and local regulations.	

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Conditions for safe storage	: Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Engineering measures	: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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 equipmen	t
Respiratory protection	: No personal respiratory protective equipment normally required.
Eye protection	: Not required under normal conditions of use. Wear splash- proof safety goggles if material could be misted or splashed into eyes.
Skin and body protection	 Wear as appropriate: Safety shoes Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures	: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Colour	: clear, light yellow
Odour	: No data available
Odour Threshold	: No data available
рН	: 3.5 - 4.5
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available

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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	: 1.18 - 1.20 g/cm3
Solubility(ies) Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: < 200 mPa.s (25 °C) LVT #2 30 RPM
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity :	No decomposition if stored and applied as directed.
Chemical stability :	Stable under recommended storage conditions.
Possibility of hazardous : reactions	Product will not undergo hazardous polymerization.
Incompatible materials :	Oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

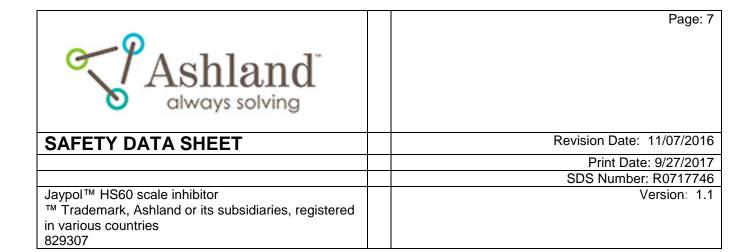
Information on likely routes of	:	Inhalation
exposure		Skin contact
		Eye Contact
		Ingestion

Acute toxicity

Not classified based on available information. **Skin corrosion/irritation** Not classified based on available information. **Serious eye damage/eye irritation** Not classified based on available information. **Product:** Remarks: Unlikely to cause eye irritation or injury.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. Germ cell mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information. **Reproductive toxicity** Not classified based on available information. STOT - single exposure Not classified based on available information. STOT - repeated exposure Not classified based on available information. Aspiration toxicity Not classified based on available information. **Further information** Product: Remarks: No data available 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

No data available **Persistence and degradability** No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal n	nethods
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General advice	:	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods	

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CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant

no

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

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SECTION 15. REGULATORY INFORMATION

SARA 311/312 Haz	zards :		No SARA Hazards		
SARA 313 Component(s)SAF			This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
Pennsylvania Righ W	ht To Know ATER			7732-18-5	50.00 - 70.00 %
2-Propenoic acid, telomer with 2-propanol and sodium 2-methyl-2-[(1-oxo-2-propen-1- yl)amino]-1-propanesulfonate (1:1), sodium salt			thyl-2-[(1-oxo-2-propen-1-	130800-24-7	30.00 - 50.00 %
New Jersey Right W	To Know ATER			7732-18-5	50.00 - 70.00 %
2-Propenoic acid, telomer with 2-propanol 130800-24-7 30.00 - 50 and sodium 2-methyl-2-[(1-oxo-2-propen-1- yl)amino]-1-propanesulfonate (1:1), sodium salt			30.00 - 50.00 %		
California Prop 65	5		This product does not conta of California to cause cance reproductive harm.		
The components of TSCA			t are reported in the follow On TSCA Inventory	ing inventories:	
DSL	:		All components of this prod	uct are on the Ca	nadian DSL.
AUSTR	:		On the inventory, or in com	pliance with the in	iventory
ENCS	:		Not in compliance with the i	nventory	
KECL	:		Not in compliance with the i	nventory	
PICCS	:		Not in compliance with the i	nventory	
IECSC	:		On the inventory, or in com	pliance with the ir	iventory

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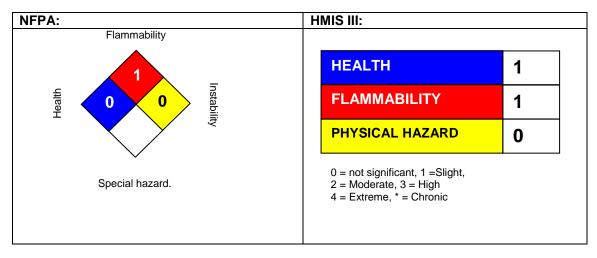
Inventories

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 Not applicable

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

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).

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

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System