

SECTION 1: IDENTIFICATION

1.1 Product Description

Product Name JIKSAW

Active Ingredients Monosaccharide 18 %

Benefit Control of plant growth and development.

1.2 Manufacturer and Distributors

Distributors **Sherwood Corporation (Thailand) Public Company Limited**

Address 1065 Srinakarin Road, Suanluang, Suanluang, Bangkok 10250, Thailand

Contact Tel. (+66) 2320-2288 Fax. (+66) 2320-2670

Website <http://www.sherwood.co.th>

1.3 Emergency telephone number

Emergency Contact Tel. (+66) 9-5957-4010

SECTION 2: HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS

Will cause irritation of the digestive tract if swallowed. May cause eye irritation.

POTENTIAL CHRONIC HEALTH EFFECTS

CARCINOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

MUTAGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

TERATOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

SECTION 3: INFORMATION ON INGREDIENTS

NAME	CAS #	Exposure Limits (ACGIH)						% by Weight
		TL V-TWA mg/m ³	TL V-TWA ppm	STEL mg/m ³	STEL ppm	CEIL mg/m ³	CEIL ppm	
Benzisothiazolin	2634-33-5							0.2
Saccharide								98.6

TOXICOLOGICAL DATA ON INGREDIENTS

Benzisothiazolin

ORAL (LD50): Acute: 1020 mg/kg [Rat].

SECTION 4: FIRST AID MEASURES

EYE CONTACT	: Immediately flush eyes with water for at least 15 minutes. Use warm water if available. Get medical attention if irritation persists.
MINOR SKIN CONTACT	: After skin contact wash with running water.
EXTENSIVE SKIN CONTACT	: After skin contact wash immediately with plenty of water and non-abrasive soap.
MINOR INHALATION	: No medical attention needed.
SEVERE INHALATION	: Allow to rest in a well ventilated area.
SLIGHT INGESTION	: Irritating to the mouth, throat, stomach, digestive tract and bowels resulting in nausea, vomiting and diarrhea. Have affected person drink several glasses of water to assist in purging system. If the person is conscious, induce vomiting. Seek medical attention.
EXTENSIVE INGESTION	: No additional information.

SECTION 5: FIRE FIGHTING MEASURES

THE PRODUCT IS	: Non-flammable.
AUTO-IGNITION TEMPERATURE	: Not applicable.
FLASH POINT	: Not applicable.
FLAMMABILITY LIMITS	: Not applicable.
PRODUCTS OF COMBUSTION	: Not applicable.
FIRE HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	: Not applicable.
EXPLOSION HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	: This substance is non-explosive.
FIRE FIGHTING MEDIA AND INSTRUCTIONS	: Material will not burn. As in any fire, wear MSHA/NIOSH approved pressure-demand self-contained breathing apparatus, or equivalent and full protective gear.
SPECIAL REMARKS ON FIRE HAZARDS	: A self contained breathing apparatus should be used to avoid inhalation of fumes.
SPECIAL REMARKS ON EXPLOSION HAZARDS	: No additional information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- SPILL**
- : Use appropriate tools or equipment to place the spilled liquid in a suitable container for reuse or disposal. Flush or wash the contaminated surface. Recover wash water and dispose of according to local and regional authority requirements.
 - : Stop leak if without risk.

SECTION 7: HANDLING AND STORAGE

- PRECAUTIONS**
- : Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
- STORAGE**
- : Keep container tightly closed. Store in a dry, cool and well ventilated area. Keep away from food, drink and animal feeds. No direct sun light. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- ENGINEERING CONTROLS**
- : Use process enclosures, local exhaust ventilation.
- PERSONAL PROTECTION**
- : The selection of personal protective equipment varies, depending upon conditions of use. Under well controlled conditions where no direct contact with the substance exists and exposures are below the occupational exposure limit, normal work clothing may suffice. However, protective clothing and appropriate respiratory protection must be available in the area in the event of emergency. Wear appropriate respirator when ventilation is inadequate. Where skin and eye contact may occur as a result of brief periodic exposures, wear clothing with long sleeves, coveralls, chemical resistant gloves, impervious chemical resistant jacket and pants, and safety glasses with side shields. A respiratory protection program that meets OSHA 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.
- PERSONAL PROTECTION IN**
- : No further information.
- CASE OF LARGE RELEASE**
- EXPOSURE LIMITS**
- : ACGIH TLV-TWA 5 mg/m³
Fed OSHA Permissible Exposure Limit: Table Z-1 8-hr
Time Weighted Avg: 15 mg/m³
MI OSHA Permissible Exposure Limit: 10 mg/m³
Federal, State, and Provincial exposure limits may vary. Consult local officials for acceptable exposure limits in your jurisdiction.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE	Liquid
COLOR	Brown
ODOR	Sweet
ODOR THRESHOLD	Not available.
TASTE	Sweet
MOLECULAR WEIGHT	Not available.
pH	7.5 - 8.5
BOILING POINT	110 C
MELTING POINT	Not available.
CRITICAL TEMPERATURE	Not available.
SPECIFIC GRAVITY g/cc	1.050-1.100
BULK DENSITY kg/m³	1050-1100 kg/m ³
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
VOLATILITY	Not available.
SOLUBILITY	Soluble in cold water and hot water.
DISPERSION PROPERTIES	Not available.
WATER/OIL DIST. COEFF.	Not available.

SECTION 10: STABILITY AND REACTIVITY

STABILITY	: The product is stable.
INSTABILITY TEMPERATURE	: Not available.
CONDITIONS OF INSTABILITY	: No additional information.
INCOMPATIBILITY WITH VARIOUS SUBSTANCES	: The product is compatible to most agents.
CORROSIVITY	: Non-corrosive in presence of aluminum or 304 stainless steel. Non-corrosive in the presence of HDPE, PE, PVC.
SPECIAL REMARKS ON REACTIVITY:	No additional remark.
SPECIAL REMARKS ON CORROSIVITY:	No additional remark.



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SECTION 11: TOXICOLOGICAL INFORMATION

SIGNIFICANT ROUTES OF EXPOSURE	: Eye contact. Ingestion.
TOXICITY TO ANIMALS	: See Section II.
SPECIAL REMARKS ON TOXICITY TO ANIMALS	: May be harmful to livestock and wildlife if ingested. Clean up all spilled material. The product itself and its products of degradation are not harmful.
OTHER EFFECTS ON HUMANS	: No additional information.
SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS	: No additional remark.
SPECIAL REMARKS ON OTHER EFFECTS ON HUMANS	: No additional remark.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	: Low toxicity for humans or animals under normal conditions of use. May be harmful to livestock and wildlife if ingested. Clean up all spilled material.
BOD and COD	: Not available.
PRODUCTS OF DEGRADATION	: Possibly hazardous short term degradation products are not likely.
TOXICITY OF THE PRODUCTS OF DEGRADATION	: The products of degradation are less toxic than the product itself.
SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION	: No additional remark.
	Reclaiming material may not be a viable.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL OR RECYCLING	: Recover spilled material and use for intended purpose.
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SECTION 14: TRANSPORT INFORMATION

DOT / TDG CLASSIFICATION	: Not controlled under TDG (Canada) or D.O.T. (U.S.A.)
PIN and Shipping Name	: Not applicable.
SPECIAL PROVISIONS FOR TRANSPORT	: No additional remark.

DOT (U.S.A) (Pictograms)



SECTION 15: REGULATORY INFORMATION

OTHER REGULATIONS

: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

OTHER CLASSIFICATIONS	HCS (U.S.A.)	HCS: Irritating substance.
	DSCL (EEC)	R25- Toxic if swallowed. R36/37/38- Irritating to eyes.

National Fire Protection Association (U.S.A.)

: Hazards presented under acute emergency conditions only:



TDG (Pictograms - Canada)



DSCL (Europe) (Pictograms)

: Not Available
No Disponible
Pas Disponible

ADR (Europe) (Pictograms)

: Not Available
No Disponible
Pas Disponible

SECTION 16: OTHER INFORMATION

REFERENCES

- Transportation of Dangerous Goods Act and Clear Language Regulations, current revision.
- Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987
Hazardous Products Act "Ingredient Disclosure List".
- Domestic Substances List, Canadian Environmental Protection Act.
- 29 CFR Part 1910
- 33 CFR Parts 151, 153, 154, 156
- 40 CFR Parts 1-799
- 46 CFR Part 153
- 49 CFR Parts 1-199
- American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, 2003.
- NFPA 704, National Fire Codes Online, National Fire Protection Association, current edition
At time of MSDS preparation.
- Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers
- TOMES® System: Heitland G & Hurlbut KM (Eds) (electronic version): MICROMEDEX,
Greenwood Village, Colorado, USA. Available at: <http://csi.micromedex.com> (2004). The
TOMES® System includes MEDITEXT® Medical Management; HAZARDTEXT® Hazard
Management; INFOTEXT® Documents; ERG2000 Emergency Response Guidebook
Documents; REPROTEXT®: Heitland G & Hurlbut KM (Eds); CHRIS Hazardous Chemical
Data:
U.S.Department of Transportation, U.S . Coast Guard, Washington, D.C .(2004); HSDB:
Hazardous Substances Data Bank. National Library of Medicine, Bethesda, Maryland
(2004); IRIS : Integrated Risk Information System. U.S. Environmental Protection Agency,
Washington, D.C. (2004); NIOSH: Pocket Guide to Chemical Hazards. National Institute for
Occupational Safety and Health, Cincinnati, Ohio (2004); OHM/TADS : Oil and Hazardous
Materials Technical Assistance Data System. U.S. Environmental Protection Agency,
Washington, D.C . (2004); REPROTOX® : S cialli A.R. Georgetown University Medical
Center and Reproductive Toxicology Center, Columbia Hospital for Women Medical Center,
Washington, D.C . (2004); RTECS® : Registry of Toxic Effects of Chemical Substances.
National Institute for Occupational Safety and Health, Cincinnati, Ohio (2004) ; and
SHEPARDS : Shepard T.H. : Shepard's Catalog of Teratogenic Agents (2004).
- Michigan Office of Regulatory Reform R 325.51101et seq

**OTHER SPECIAL
CONSIDERATIONS**

No additional information.



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