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	Version 1
1 Identification Product identifier Product name: Conjun	
Product name: <u>Genipin</u> Stock number: H37653 CAS Number:	
6902-77-8 EC number: 636-196-5 Relevant identified uses of the substance or mixture and uses advised against.	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-3243-0660 Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger         Hazard statements         H301 Toxic if swallowed.         Precautionary statements         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.         P321       Specific treatment (see on this label).         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       D1B - Toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
Image: Instant (addice checks) = 2       Image:	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 6902-77-8 Genipin Concentration: ≤100% Identification number(s): EC number: 636-196-5	
4 First-aid measures Description of first aid measures	
<b>General information</b> Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	d on page 21
	d. on page 2) USA

(Contd. of page 1) After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. Information for doctor Most important symptoms and effects, both acute and delayed Toxic if swallowed. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Or box monovide and each or dioxide. Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Reference to other sections See Section 7 for information on safe handling See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage facility Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective equipment The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically, appropriate working any incompant veasin manus before breaks and at the end of work. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. **Protection of hands:** Impervious gloves Check protection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Not determined Odor: Odor threshold: Not determined. (Contd. on page 3) USA

pH-value:	(Contd. of page 2) Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range:	118-123 °C (244-253 °F) Not determined			
Sublimation temperature / start: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined			
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined			
Upper: Vapor pressure: Density: Relative density Vapor density	Not determined Not applicable. Not determined Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not applicable. Not determined			
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide				
	I Substances (RTECS) contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for c	lassification:			
Oral LD50 237 mg/kg (mouse) Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive toxicity: No effects know	n.			
Specific target organ system toxicity				
Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: The Reg Additional toxicological information:	single exposure: No effects known. stry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information:				
General notes: Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva				
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
UN-Number DOT, IMDG, IATA	UN2811			
UN proper shipping name DOT	Toxic solids, organic, n.o.s. (Genipin)			
(Contd. on page 4) USA				

Saf	etv	Data	Sheet
acc.	to O	SHA H	CS

	(Contd. of page 3)			
ADR	2811 Toxic solids, organic, n.o.s. (Genipin) TOXIC SOLID, ORGANIC, N.O.S. (Genipin)			
IMDG, IATA Transport hazard class(es)	TOXIC SOLID, ORGANIC, N.O.S. (Genipin)			
DOT				
Class	6.1 Toxic substances			
Label ADR	6.1			
Class	6.1 (T2) Toxic substances			
Label IMDG, IATA	6.1			
ý.				
Class Label	6.1 Toxic substances 6.1			
	0.7			
Packing group DOT, ADR, IMDG, IATA	III			
Environmental hazards:	Not applicable.			
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A			
Stowage Category	A de Net emplicable			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coo Transport/Additional information:				
DOT				
Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN 2811 TOXIC SOLIDS, ORGANIC, N.O.S. (GENIPIN), 6.1, III			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms				
information to ensure proper use and protect the health and safety of employed conformance with this Safety Data Sheet, or in combination with any other pro- Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date, and version number a	are in the header of each name			
Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association				
EINECS: European Inventory of Existing Commercial Chemical Substances	(Contd. on page 5)			



CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern YPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Apercy for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 3: Acute toxicity – Category 3 (Contd. of page 4)

USA