

Safety Data Sheet per OSHA HazCom 2012

Vene	weu 0// 0//2 //2014
1 Identification	
Product identifier	
Product name: Danazol	
Stock number: J62200 CAS Number:	
17230-88-5 EC number:	
241-270-1 Relevant identified uses of the substance or mixture and uses advised against.	
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: 800-343-0660	
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)	
GHS08 Health hazard	
Repr. 2 H361 Suspected of damaging fertility or the unborn child.	
\wedge	
GHS07	
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
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	
GHS07 GHS08	
Signal word Warning	
Hazard statements H312+H332 Harmful in contact with skin or if inhaled.	
H361 Suspected of damaging fertility or the unborn child.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2A - Very toxic material causing other toxic effects	
$(\overline{\mathbf{T}})$	
HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System) HEALTH	
IFRE IFREMENTING IFREMENTING IFREMENTING IFREMENTING Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 17230-88-5 17β-Hydroxy-2,4,17α-pregnadien-20-yno[2,3-d]isoxazole,	
2,4,17α-Pregnadien-20-yno[2,3-d]-isoxa-zol-17-ol Identification number(s):	
EC number: 241-270-1	USA

(Contd. of page 1) 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact 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 Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media 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: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) 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 Ensure adequate ventilation Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Recounting 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 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 and hygienic measures 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. Avoid contact with the eyes and skin. Maintoin on comparison we conversion working any incompart Avoid contact with the eyes and skin. 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 doves

Impervious gloves Check protective 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

Product name: Danazol

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9 Physical and chemical properties	S
Information on basic physical and ch	iemical properties
General Information Appearance:	
Form: Color:	Powder White
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.
Ignition temperature: Decomposition temperature:	Not determined
Auto igniting:	Not determined Not determined.
Danger of explosion:	Not determined.
Explosion limits: Lower:	Not determined
Upper:	Not determined
Vapor pressure: Density:	Not applicable. Not determined
Relative density Vapor density	Not determined.
Evaporation rate	Not applicable. Not applicable.
Solubility in / Miscibility with Water:	Not determined
Partition coefficient (n-octanol/water)	
Viscosity: dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
Other Information	
10 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recom	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Re	eacts with strong oxidizing agents
Conditions to avoid No further relevan Incompatible materials: Oxidizing age	it information available.
Hazardous decomposition products:	
Carbon monoxide and carbon dioxide Nitrogen oxides	
11 Toxicological information	
Information on toxicological effects Acute toxicity:	
Harmful if inhåled. Harmful in contact with skin.	
Harmful if swallowed.	
Danger through skin absorption. The Registry of Toxic Effects of Chemic	cal Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for o	
Oral LD50 >17000 mg/kg (rat)	
Skin irritation or corrosion: May caus Eye irritation or corrosion: May cause	e irritation
Sensitization: No sensitizing effects kn	nown. of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity	
The Registry of Toxic Effects of Chemic No classification data on carcinogenic n	cal Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity:	
Suspected of damaging fertility or the un The Registry of Toxic Effects of Chemic	nborn child. cal Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity Specific target organ system toxicity	cal Substances (RTECS) contains reproductive data for this substance. - repeated exposure: No effects known. - cipade avaparative No effects known.
Aspiration hazard: No effects known.	
Subacute to chronic toxicity: The Reg Additional toxicological information:	gistry 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.
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12 Ecological information	
Toxicity Aquatic toxicity: No further relevant in	formation available.
Persistence and degradability No furt	ther relevant information available.
Bioaccumulative potential No further i Mobility in soil No further relevant info	rmation available.
Additional ecological information: General notes:	
Do not allow material to be released to t	the environment without proper governmental permits.
Do not allow undiluted product or large Avoid transfer into the environment	quantities to reach ground water, water course or sewage system.
Results of PBT and vPvB assessmen	it in the second s
PBT: Not applicable. vPvB: Not applicable.	
vPvB: Not applicable. Other adverse effects No further releva	ant information available.
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13 Disposal considerations Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal Recommendation: Disposal must be made according to official regulations. 14 Transport information **UN-Number** DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Special precautions for user Not applicable Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation":

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



GHS07 GHS08

Signal word Warning

Hazard statements H312+H332 Harmful in contact with skin or if inhaled. H361 Suspected of damaging fertility or the unborn child.

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 Suspected of damaging returny of the unsorth state.

 Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P281
 Use personal protective equipment as required.

 P304+P340
 FINHALED: Remove person to fresh air and keep comfortable for breathing.

P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations

National regulations All components of this product are listed on the Canadian Domestic Substances List (DSL). This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.

Prop 65 - Developmental toxicity

17230-88-5 17β-Hydroxy-2,4,17α-pregnadien-20-yno[2,3-d]isoxazole, 2,4,17α-Pregnadien-20-yno[2,3-d]-isoxa-zol-17-ol

Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Sousters) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VP/W yery Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)