



(Contd. on page 2) USA

## Safety Data Sheet acc. to OSHA HCS

## Product name: Ethyl 5-methyl-4-oxo-3,4-dihydropyrrolo[2,1-f]-1,2,4-triazine-6-carboxylate (Contd. of page 1) After skin contact Inter skill 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 offects, both caute and delayed Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation May cause respiratory initiation. 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: 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 Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. **Revention 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 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. 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 N95 (USA) or PE (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. Impervious gloves 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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. (Contd. on page 3)

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		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined	
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides		
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: Carcinogenic categories	in irritation. ious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor- Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	elevant information available. mation available. quantities to reach ground water, water course or sewage system. t	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. ade 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	
		(Contd. on page 4)

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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 MARPOL	73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	
Regulatory information	
Safety, health and environmental regulations/legisla	ation specific for the substance or mixture
GHS label elements The product is classified and label Hazard pictograms	led in accordance with 29 CFR 1910 (OSHA HCS)
$\mathbf{v}$	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements	, ,
P261 Avoid breathing dust/fume/gas/mist/ P280 Wear protective gloves/protective clo	vapours/spray. othing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with w	rater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove victim to fresh P362 Take off contaminated clothing and v	n air and keep at rest in a position comfortable for breathing. wash before reuse
P321 Specific treatment (see on this label)	
P405 Store locked up	
P403+P233 Store in a well-ventilated place. Keel	p container tightly closed.
National regulations	ordance with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Prot	tection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri e 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	bstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
This product is not listed on the Canadian Domestic Sul SARA Section 313 (specific toxic chemical listings)	bstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substar Prop 65 - Developmental toxicity Substance is not list	ice is not listed. ted
Prop 65 - Developmental toxicity female Substance	is not listed
Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by the	not listed. echnically qualified individuals
Other regulations, limitations and prohibitive regula	not listed. not listed. rechnically qualified individuals. ntions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
Substance of Very High Concern (SVHC) according The conditions of restrictions according to Article 6	to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. T and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed.	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Aut	thorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asse	essment has not béen carried out.
Other information	
Employers should use this information only as a supple	ment to other information gathered by them, and should make independent judgement of suitability of this
conformance with this Material Safety Data Sheet, or in	and safety of employees. This information is furnished without warranty, and any use of the product not combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department	nt
Date of preparation / last revision 07/07/2016 / - Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses p. DOT: US Department of Transportation	ar Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service (division of the American Chemical Soci	iety)
WHMIS: Natadous Materials Indentification System (OSA) WHMIS: Workplace Hazardous Materials Information System (Canada)	
LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative	
ACGIH: American Conference of Governmental Industrial Hygienists (USA OSHA: Occupational Safety and Health Administration (USA)	4)
NTP: National Toxicology Program (USA) JARC: International Agency for Research on Cancer	
EPA: Environmental Protection Agency (USA) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) iety) A) gory 3U
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure Hazard Category	aory 3
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