





Product name: Imazapyr

Indication of any immediate medica	al attention and special treatment needed No further relevant information available.	of page 1)
5 Fine find fine meaning		
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carb Special hazards arising from the su If this product is involved in a fire, the Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	oon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Ibstance or mixture following can be released:	
6 Accidental release measures		
Personal precautions, protective ed Wear protective equipment. Keep unp Ensure adequate ventilation Environmental precautions: Do not	allow product to reach sewage system or any water course. ent and cleaning up : Pick up mechanically. No special measures required. handling onal protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workpla Information about protection again. Conditions for safe storage, includ Storage Requirements to be met by storero Information about storage in one co Protect from heat. Store away from oxidizing agents. Further information about storage of Keep container tightly sealed. Refrigerate	st explosions and fires: No information known. ing any incompatibilities oms and receptacles: Refrigerate ommon storage facility: conditions:	
Specific end use(s) No further releva	ant information available.	
Control parameters Components with limit values that i	n of technical systems: od designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. require monitoring at the workplace:	
The product does not contain any rele Additional information: No data	evant quantities of materials with critical values that have to be monitored at the workplace.	
Exposure controls Personal protective equipment General protective and hygienic me The usual precautionary measures fo Keep away from foodstuffs, beverage Remove all soiled and contaminated of Wash hands before breaks and at the Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate Breathing equipment: Use suitable f Recommended filter device for sho Use a respirator with type N95 (USA) purifying respirators are appropriate. Protection of hands: Impervious gloves Check protective gloves prior to each The selection of suitable gloves not o Material of gloves Nitrile rubber, NBI Penetration time of glove material (r handling chemicals should be followed. is and feed. clothing immediately. e end of work. e working environment. respirator when high concentrations are present. or term use: or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if a Only use equipment tested and approved under appropriate government standards. use for their proper condition. nly depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	air-
Glove thickness 0.11 mm Eye protection: Safety glasses		
Body protection: Protective work clo	thing.	
9 Physical and chemical properti	ies	
Information on basic physical and of General Information Appearance:		
'Form: Color:	Powder White to pale brown	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Melting point/Melting range: Boiling point/Boiling range:	128-130 °C (262-266 °F) 425 °C (797 °F)	
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(Contd. on page 3) USA

Product name: Imazapyr

Page 3/4 Printing date 11/24/2015 Reviewed on 10/16/2014

Product name: Imazapyr			
		(Contd. of page 2)	
Sublimation temperature / start:	Not determined		
Flash point: Flammability (solid, gaseous)	> 110 °C (> 230 °F) Not determined.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower: Upper:	Not determined Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with Water:			
Partition coefficient (n-octanol/water Viscosity:): Not determined.		
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
40 Stability and second second second			
10 Stability and reactivity Reactivity No information known.			
Chemical stability Stable under recorr	nmended storage conditions.		
Possibility of hazardous reactions R	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents		
Conditions to avoid No further relevan Incompatible materials:	nt information available.		
Oxidizing agents Heat	Oxidizing agents		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects			
	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.		
LD/LC50 values that are relevant for classification: Oral LD50 >5000 mg/kg (rat)			
Dermal LD50 >2 gm/kg (rabbit) Skin irritation or corrosion: May cause irritation			
Eye irritation or corrosion: Causes serious eve irritation.			
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.			
Aspiration hazard: No effects known.			
Subacute to chronic toxicity: No effects known. Additional toxicological information: 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 in	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. Ecotoxical effects:			
Remark: Harmful to aquatic organisms Additional ecological information:			
General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.			
May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment.			
Harmful to aquatic organisms Results of PBT and vPvB assessment			
PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relevant	vant information available.		
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	NI-1 P L1-		
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable		
DOT, ADN, IMDG, IATA	Not applicable		
		(Contd. on page 4)	

(Contd. on page 4)

Product name: Imazapyr	
	(Contd. of page 3)
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	
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	n accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
GHS07	
Signal word Warning Hazard statements	
H319 Causes serious eye irritation.	
Precautionary stateménts P280 Wear protective gloves/protective clothing	a/ava protaction/face protaction
P264 Wash thoroughly after handling.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water 1 P337+P313 If eye irritation persists: Get medical advid	for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
National regulations	
This product is not listed in the U.S. Environmental Protection	on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ed 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 form	nulations for commercial purposes.
SARA Section 313 (specific toxic chemical listings) Substant	nces List (DSL) or the Ca'nadian Non-Domestic Substances List (NDSL). stance is not listed
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not Prop 65 - Developmental toxicity, male Substance is not li	it listed.
Information about limitation of use: For use only by techni	istea. nically qualified individuals.
Other regulations, limitations and prohibitive regulations	ically qualified individuals. s he REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to the	id Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed.
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Authoris Chemical safety assessment: A Chemical Safety Assessm	isation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessm	nent has not been carried out.
16 Other information	
Employers should use this information only as a supplement	t to other information gathered by them, and should make independent judgement of suitability of this 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 com	bination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Rou	ute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
WHMIS: Workplace Hazardous Materials Information System (Canada)	
Loss. Lethal doise, 50 percent VPUB: very Persistent and very Bioaccumulative	
ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (LISA)	ute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	
EQA: Environmental Protection Aconory (USA)	

USHA: Occupational Safety and Health Administratic NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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