

avision Date 23.06.2015 Document no. 130000050647 is SDS adheres to the standards and regulatory requirements of India and may not meet the regulatory requiremer countries. DENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product name : Bensulfuron Methyl + Pretilachlor Other names : LONDAX POWER C12335417 Recommended use of the chemical and restriction on use Recommended use : Herbicide Manufacturer, importer, supplier Company : E. I. DuPont India Pvt. Ltd. Street address : Herbicide Manufacturer, importer, supplier Company : E. I. DuPont India Pvt. Ltd. Street address : 149:1024-25403900 Telephone : +91:124-25403900 Telephone : +91:124-24002888 / +91-124-2353777 number : +91:124-2400889 / 90 / 91 / 92 Emergency telephone : +91:124-2400888 / +91-124-2353777 number : : HAZARDS IDENTIFICATION Product hazard classification Endpoints which are not classified, cannot be classified or are not applicable are not shown. No information available. No information available. COMPOSITION/INFORMATION ON INGREDIENTS <		UPUNI
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Ingestion : Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice. Most important symptoms/effects, acute and delayed : No information available. Protection of first-aiders : No information available. FIREFIGHTING MEASURES : Water spray, Foam, Dry chemical, Carbon dioxide (CO2) media Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2) media Specific hazards : : No information available. Specific hazards : : No information available. Specific extinguishing media : No information available. Specific hazards : : No information available. Specific hazards : : No information available. Specific extinguishing methods : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. : No information available. Specific extinguishing methods : No information available. Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water for containated fire extinguishing water separately. This must not be discharged int	vision Date 23.06.2015		Document no. 130000050647
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for containment and cleaning up		:	Prevent material from entering sewers, waterways, or low areas.
	for containment and	:	Sweep up and shovel into suitable containers for disposal.
Additional advice : Dispose of in accordance with local regulations.			



Bensulfuron Methyl + Pretilachlor

Version 2.0 Revision Date 23.06.2015

Document no. 130000050647

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions	:	Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
Precautions for safe handling	:	Under severe dusting conditions, this material may form explosive mixtures in air.
Storage		
Suitable storage conditions	:	Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Occupational Exposure Limits	Regulation
Paraffin oils		
STEL	10 mg/m3 (Mist.)	IN OEL (2001)
TWA	5 mg/m3 (Mist.)	IN OEL (2001)
TWA	5 mg/m3 (Inhalable fraction.)	US ACGIH (2011)

Engineering measures	:	Use only with adequate ventilation.
Biological occupational	:	No information available.

Personal protective equipment

exposure limits

Respiratory protection	:	Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
Hand protection	:	Material: Protective gloves
Eye protection	:	Wear protective eyewear to prevent contact with this substance.
Skin protection	:	Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.
Protective measures	:	End users of this product should follow label instructions for personal protection when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES



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Appearance (Physical state		
Physical state	: solid	
Form Colour	: dry, free flowing granules : light brown	
	·	
Odour	: not significant	
Odour Threshold	: No information available.	
рН	: 9 - 10.5 (1% solution)	
Melting point/freezing poin No information available.	t	
Initial boiling point and boi No information available.	ling range	
Flash point	: No information available.	
Evaporation rate	: No information available.	
Flammability (solid, gas)	: No information available.	
Upper/lower flammability o		
Upper explosion limit Lower explosion limit	 No information available. No information available. 	
Vapour pressure	: No information available.	
Vapour density	: No information available.	
Density Density	: 0.9 - 1.3 g/cm3	
Solubility(ies) Water solubility	: No information available.	
Partition coefficient: n-	: No information available.	
octanol/water		
Auto-ignition temperature No information available.		
Decomposition temperature	: No information available.	
Viscosity	: No information available.	
Viscosity, kinematic		
Molecular weight	: No information available.	
10. STABILITY AND REACTIVIT	Y	
Reactivity	: No information available.	
	4/8	



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Chemical stability	: Stable at normal temperatures and storage conditions.		
Possibility of hazardous reactions	: No information available.		
Conditions to avoid	: No information available.		
Materials to avoid	: None reasonably foreseeable.		
Hazardous decomposition products	: No information available.		
TOXICOLOGICAL INFORM	ATION		
Bensulfuron methyl	: LD50/Rat: > 5,000 mg/kg		
Pretilachlor	: LD50/Mouse: 1,800 mg/kg		
Paraffin oils	: LD50/Rat: > 5,000 mg/kg		
Inhalation			
Bensulfuron methyl	: LC50/4 h/Rat: > 7.5 mg/l		
Pretilachlor	: Toxic effects can not be exluded		
Dermal Bensulfuron methyl	1050/Pabhit > 2000 ma/ka		
Pretilachlor	: LD50/Rabbit: > 2,000 mg/kg : LD50/Rat: > 3,100 mg/kg		
Paraffin oils	: LD50/Rabit: > 2,000 mg/kg : LD50/Rabbit: > 2,000 mg/kg		
Skin corrosion/irritation			
Bensulfuron methyl	: Species: Rabbit Result: No skin irritation Classification: No skin irritation		
Pretilachlor	: Species: Rabbit Result: Severe skin irritation Classification: Irritating to skin.		
Paraffin oils	 Species: Not tested on animals Result: No skin irritation Classification: Not classified as irritant Method: OECD Test Guideline 404 		
Serious eye damage/eye i	rritation		
Bensulfuron methyl	: Species: Rabbit		
	Result: No eye irritation		
Pretilachlor	: Species: Rabbit		
	Result: Irritation to eyes, reversing within 7 days		
Doroffin oile	Classification: Mild eye irritation		
Paraffin oils	: Species: multiple species Result: Mild eye irritation		
	Classification: Irritating to eyes.		
	Method: OECD Test Guideline 405		
Respiratory or skin sensit	isation		
Bensulfuron methyl	: Species: Guinea pig		
Denearation metry	Result: Did not cause sensitisation on laboratory animals.		
Paraffin oils	: Species: Not tested on animals		
	Result: Does not cause skin sensitisation.		
	Classification: Does not cause skin sensitisation.		

Pretilachlor



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Germ cell mutagenicity Bensulfuron methyl	: Tests on bacterial or mammalian cell cultures did not show mutagenic
Paraffin oils	effects. Animal testing did not show any mutagenic effects. Animal testing did not show any mutagenic effects. Evidence suggests
	this substance does not cause genetic damage in animals.
Carcinogenicity	
Bensulfuron methyl	: Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Paraffin oils	: Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Reproductive toxicity	
Bensulfuron methyl	 Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicit
Specific Target Organ Toxicit Specific target organ toxicity - s Paraffin oils Specific target organ toxicity - re	ingle exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.
Paraffin oils	 The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	
Paraffin oils	 The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.
Other	
Bensulfuron methyl	 Repeated dose toxicity: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral - feed/multiple species
	Liver effects Oral - feed/Rat/male 90 d altered hematology
Paraffin oils	: Repeated dose toxicity: Oral/multiple species
	No toxicologically significant effects were found.
2. ECOLOGICAL INFORMATION	
Ecotoxicity effects Acute and prolonged toxicity to	fish
Bensulfuron methyl Pretilachlor	: LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 66 mg/l

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- LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 66 mg/l
 LC50/96 h/Oryzias latipes (Orange-red killifish): 2.4 mg/l



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Toxicity to aquatic plants Bensulfuron methyl Pretilachlor	 EC50/14 d/Lemna gibba (duckweed): 0.0008 mg/l EC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.0013 mg/l NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.001 mg/l Method: OECD Test Guideline 201
Acute toxicity to aquatic inve Pretilachlor Paraffin oils	rtebrates : EC50/48 h/Daphnia magna (Water flea): 7 mg/l : EC50/48 h/Daphnia magna (Water flea): 0.021 mg/l
Chronic toxicity to fish Pretilachlor	: NOEC/9 d/Danio rerio (zebra fish): 1.5 mg/l Method: see user defined free text
Chronic toxicity to aquatic In Pretilachlor	vertebrates : NOEC/7 d/Ceriodaphnia dubia (water flea): 1.3 mg/l
Persistence and degradab Pretilachlor Paraffin oils	ility : Result: Biodegradable : Result: Not rapidly biodegradable
Bioaccumulation	: no data available
Pretilachlor Mobility in soil No information available. Other adverse effects No information available.	
 Mobility in soil No information available. Other adverse effects No information available. 	
Mobility in soil No information available. Other adverse effects No information available. DISPOSAL CONSIDERATIO Waste disposal methods	NS : In accordance with local and national regulations. The product should not be
Mobility in soil No information available. Other adverse effects No information available.	 NS In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. Do not re-use empty containers.
Mobility in soil No information available. Other adverse effects No information available. DISPOSAL CONSIDERATIO Waste disposal methods Contaminated packaging	 NS In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. Do not re-use empty containers.
Mobility in soil No information available. Other adverse effects No information available. DISPOSAL CONSIDERATIO Waste disposal methods Contaminated packaging TRANSPORT INFORMATION IMDG UN number Proper shipping name Class Packing group	 NS In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. Do not re-use empty containers. N 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9 III



Bensulfuron Methyl + Pretilachlor

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Hazchem Code : 2Z

15. REGULATORY INFORMATION

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001

2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

References

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Significant change from previous version is denoted with a double bar.

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