

Nobilis Salenvac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.5	30.09.2023	7409656-00006	Date of first issue: 13.11.2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Nobilis Salenvac Formulation			
Manufacturer or supplier's details					
Company name of supplier	:	MSD			
Address	:	126 E. Lincoln Avenue			
		Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary medicine			
Restrictions on use	:	Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction.
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards		

Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Antigen	Not Assigned	4 -<= 12
Maleic acid	110-16-7	0.23

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do



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		protective equipment ighters	:	so. Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECT	ION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
tiv	ve equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
E	nviron	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
	 Use only with adequate ventilation. Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Avoid contact with eyes.
	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.



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	tions for safe storage als to avoid	engineering cont appropriate dego industrial hygiene use of administra Keep in properly Store in accordar	labeled containers. nce with the particular national regulations. the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipm	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Hand protection Material		Chamical registent gloves
Material	·	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: suspension
Color	: cream
Odor	: No data available
Odor Threshold	: No data available
рН	: 6.6 - 7.0
Melting point/freezing point	: No data available



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	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor _l	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	ca. 1	
	Density	,	:	ca. 1 g/cm³ similar to water	
	Solubili Wat	ity(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle	e size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability		Not classified as a reactivity hazard. Stable under normal conditions.
		Can react with strong oxidizing agents.
Conditions to avoid	:	None known.



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	npatible materials rdous decomposition ucts		Oxidizing agents No hazardous d	s ecomposition products are known.		
SECTION	11. TOXICOLOGICAL	INF	ORMATION			
Inhala Skin Inges	Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact					
	e toxicity					
	lassified based on avai	lable	information.			
	ponents:					
	ic acid: e oral toxicity	:		0 - 2,000 mg/kg Test Guideline 401 on data from similar materials		
Acute	e dermal toxicity	:	LD50 (Rabbit): 1	,560 mg/kg		
-	corrosion/irritation lassified based on avai	lable	information.			
Com	ponents:					
Male	ic acid:					
Spec Meth		:	in vitro membran OECD Test Guid			
Resu	lt	:	Corrosive after 3	minutes to 1 hour of exposure		
	ous eye damage/eye ir lassified based on avai					
<u>Com</u>	ponents:					
	ic acid:					
Resu Rema		:	Irreversible effect Based on skin co			
B						
-	piratory or skin sensiti	zatio	on			
-	sensitization cause an allergic skin re	eacti	on.			
•	piratory sensitization	odoti				
-	lassified based on avai	lable	information.			



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<u>Comp</u>	oonents:			
Test 1	es of exposure es od		Maximization Tes Skin contact Guinea pig OECD Test Guide positive	
Asses	ssment	:	Probability or evic	lence of skin sensitization in humans
	cell mutagenicity assified based on availa	able	information.	
<u>Comp</u>	oonents:			
	c acid: toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
Not cl	nogenicity assified based on availa ponents:	able	information.	
Speci Applic	cation Route sure time t		Rat Ingestion 2 Years negative Based on data fro	om similar materials
-	oductive toxicity assified based on availa	hla	information	
	oonents:	able	mornauon.	
Malei	c acid: s on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
Effect	s on fetal development	:	Species: Rat Application Route Result: negative	ro-fetal development : Ingestion on data from similar materials



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	F-single exposure lassified based on availa	able	information.			
<u>Com</u>	Components:					
Male	ic acid:					
Asse Rema	ssment arks	:	May cause respir Based on nationa	atory irritation. I or regional regulation.		
	F-repeated exposure lassified based on availa	able	information.			
Aspi	ration toxicity					
Not c	lassified based on availa	able	information.			
SECTION	12. ECOLOGICAL INFO	OR	IATION			
Ecot	oxicity					
<u>Com</u>	ponents:					
Male	ic acid:					
Toxic	ity to fish	:	mg/l Exposure time: 90	acrochirus (Bluegill sunfish)): > 10 - 100 6 h on data from similar materials		
	tity to daphnia and other tic invertebrates	:	Exposure time: 48 Test substance: N	nagna (Water flea)): 42.81 mg/l 3 h Neutralized product est Guideline 202		
	tity to algae/aquatic s	:	mg/l Exposure time: 72	Neutralized product		
			mg/l Exposure time: 72	Neutralized product		
	tity to daphnia and other tic invertebrates (Chron- icity)		Exposure time: 2	magna (Water flea)): > 1 mg/l 1 d on data from similar materials		
Toxic	ity to microorganisms	:	Exposure time: 18	Neutralized product		



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ersion 5	Revision Date: 30.09.2023	SDS Number: 7409656-00006	Date of last issue: 04.04.2023 Date of first issue: 13.11.2020
Persi	stence and degradal	bility	
Com	ponents:		
Malei	ic acid:		
Biode	gradability	Biodegradati Exposure tin	
Bioad	ccumulative potentia	I	
<u>Com</u>	ponents:		
Malei	ic acid:		
	ion coefficient: n- ol/water	: log Pow: -1.3	3
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

•	
Waste from residues	: Do not dispose of waste into sewer.
	Dispose of in accordance with local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

Disposal methods

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT

Not regulated as a dangerous good

Special precautions for user

Not applicable





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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Revision Date	: 30.09.2023
Date format	: dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-





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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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