

Isoeugenol Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	4741412-00015	Date of first issue: 2019/08/13

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Isoeugenol Formulation
Supplier's company name, a	ddr	ess and phone number
Company name of supplier	:	MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		

Hazard pictograms



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Isoeugenol Formulation

Version 11.0	Revision Date: 2024/09/28	SDS Number: 4741412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
Signa	al word	: Warning	
Cigila		· Warning	
Haza	rd statements	H319 Causes s H332 Harmful i H335 May caus H401 Toxic to a	se an allergic skin reaction. serious eye irritation. f inhaled. se respiratory irritation.
Preca	autionary statements	Prevention:	
		P264 Wash ski P271 Use only P272 Contamir the workplace. P273 Avoid rele	eathing vapours. n thoroughly after handling. outdoors or in a well-ventilated area. nated work clothing should not be allowed out of ease to the environment. tective gloves/ eye protection/ face protection.
		P304 + P340 + and keep comf doctor if you fe P305 + P351 + for several min easy to do. Cor P333 + P313 If vice/ attention. P337 + P313 If tention.	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and
		Storage:	
		P405 Store loc	ked up.
		Disposal: P501 Dispose d disposal plant.	of contents/ container to an approved waste
None	r hazards which do no known.		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Isoeugenol	97-54-1	>= 50 - < 60	3-637



Version	Revision Date: 2024/09/28	SDS Number:	Date of last issue: 2024/04/06
11.0		4741412-00015	Date of first issue: 2019/08/13
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4. FIRST AID MEASURES		
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
In case of eye contact	:	Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
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	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled.
Protection of first-aiders	:	May cause respiratory irritation. 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.
5. FIREFIGHTING 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.





Version 11.0	Revision Date: 2024/09/28		OS Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
				to cool unopened containers. aged containers from fire area if it is safe to do
	ial protective equipment efighters	:		re, wear self-contained breathing apparatus. otective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
Envir	onmental precautions	:	Prevent further Prevent spreadi barriers). Retain and disp	e the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
	ods and materials for ainment and cleaning up	:	For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational requirements.
7. HANDL	ING AND STORAGE			
Hand	lling			
Tech	nical measures	:		g measures under EXPOSURE RSONAL PROTECTION section.
Loca	I/Total ventilation	:		ilation is unavailable, use with local exhaust
Advid	ce on safe handling	:	Do not get on sk Do not breather Do not swallow. Do not get in ey Wash skin thoro Handle in accor	vapours.
			1/15	





Version 11.0	Revision Date: 2024/09/28		0S Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
	lance of contact ene measures		to asthma, allergi should consult the tory irritants or se Take care to prev environment. Oxidizing agents If exposure to che flushing systems place. When using do no Contaminated wo workplace. Wash contaminat The effective ope engineering contr appropriate dego	d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira- nsitisers. ent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the
	age litions for safe storage rials to avoid	:	Store locked up. Keep tightly close Keep in a cool, w Store in accordan	abelled containers. d. ell-ventilated place. ice with the particular national regulations. the following product types:
Packa	aging material	:	Strong oxidizing a Unsuitable materi	-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Isoeugenol	97-54-1	TWA	250 µg/m3 (OEB 2)	Internal
	Further informa	ation: DSEN		
		Wipe limit	100 µg/100 cm ²	Internal

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).

All engineering controls should be implemented by facility





.0	Revision Date: 2024/09/28		S Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
			protect products	ated in accordance with GMP principles to , workers, and the environment. ations do not require special containment.
Perso	onal protective equipm	nent		
	ratory protection	:	No personal resp quired.	piratory protective equipment normally re-
	protection aterial	:	Chemical-resista	ant gloves
Eye p	emarks rotection	:	If the work enviro mists or aerosols Wear a faceshie potential for dire aerosols.	esses with side shields or goggles. Conment or activity involves dusty conditions, s, wear the appropriate goggles. Id or other full face protection if there is a ct contact to the face with dusts, mists, or
Skin a	and body protection	:	Work uniform or	laboratory coat.
PHYSIC	AL AND CHEMICAL P	ROF	PERTIES	
	CAL AND CHEMICAL P	PROF	PERTIES viscous liquid	
	cal state	PROF	-	
Physi	cal state r	PROF	viscous liquid	
Physi Colou Odou	cal state r	PROF	viscous liquid yellow	le
Physi Colou Odou Odou	cal state r	•ROF : : : :	viscous liquid yellow floral	
Physi Colou Odou Odou Meltin Boilin	cal state r r r Threshold	PROF : : : :	viscous liquid yellow floral No data availab	
Physic Colou Odou Odou Meltin Boilin point	cal state r r r Threshold ng point/freezing point g point, initial boiling	PROF : : : : :	viscous liquid yellow floral No data availab No data availab	
Physic Colou Odou Odou Meltin Boilin point	cal state r r r Threshold g point/freezing point g point, initial boiling and boiling range	PROF : : : : : : :	viscous liquid yellow floral No data availab No data availab 266 °C	le
Physic Colou Odou Odou Meltin Boilin point Flamr Flamr Lower Up	cal state r r r Threshold ng point/freezing point g point, initial boiling and boiling range nability (solid, gas)	: : : : : : : : :	viscous liquid yellow floral No data availab No data availab 266 °C Not applicable No data availab	le mmability limit
Physic Colou Odou Odou Meltin Boilin point Flamr Flamr Lower Up pe	cal state r r r Threshold g point/freezing point g point, initial boiling and boiling range nability (solid, gas) nability (liquids) r explosion limit and upp oper explosion limit / Up	: : : : : : : : :	viscous liquid yellow floral No data availab No data availab 266 °C Not applicable No data availab	le mmability limit le
Physic Colou Odou Odou Meltin Boilin point Flamr Flamr Lower Up pe	cal state r r r Threshold ng point/freezing point g point, initial boiling and boiling range nability (solid, gas) nability (liquids) r explosion limit and upp oper explosion limit / Up r flammability limit wer explosion limit / wer flammability limit	: : : : : : : : :	viscous liquid yellow floral No data availab No data availab 266 °C Not applicable No data availab explosion limit / fla No data availab	le mmability limit le
Physic Colou Odou Odou Meltin Boilin point Flamr Flamr Lower Up pe Lo Lo	cal state r r r Threshold ng point/freezing point g point, initial boiling and boiling range nability (solid, gas) nability (liquids) r explosion limit and upp oper explosion limit / Up r flammability limit wer explosion limit / wer flammability limit	: : : : : : : : :	viscous liquid yellow floral No data availab No data availab 266 °C Not applicable No data availab explosion limit / fla No data availab	le mmability limit le le



Isoeugenol Formulation

Versi 11.0	ion	Revision Date: 2024/09/28		S Number: 1412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
	Evapora	ation rate	:	No data available	
	Auto-igi	nition temperature	:	No data available	
,	Viscosit Visc	ty osity, kinematic	:	No data available	
:	Solubili Wate	ty(ies) er solubility	:	dispersible	
	Solu	bility in other solvents	:	soluble Solvent: Ethanol	
	Partitior octanol	n coefficient: n- /water	:	Not applicable	
,	Vapour	pressure	:	< 0.02 mmHg (25	5 °C)
I		and / or relative densi ative density	ty :	No data available)
	Den	sity	:	No data available	9
ļ	Relative	e vapour density	:	No data available)
I	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
I	Molecu	lar weight	:	No data available	
I		characteristics icle size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Oxidizing agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion





rsion .0	Revision Date: 2024/09/28	-	DS Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
			Eye contact	
			,	
	toxicity ful if inhaled.			
Produ	<u>ict:</u>			
Acute	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	4 h e: dust/mist
Acute	dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
<u>Comp</u>	oonents:			
Isoeu	genol:			
Acute	oral toxicity	:	LD50 (Rat): 1,29	90 mg/kg
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Expert	e: dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit): ²	I,912 mg/kg
	corrosion/irritation			
Comp	oonents:			
	genol:			
Speci Resul	es	:	Rabbit Skin irritation	
	us eye damage/eye es serious eye irritatio		ion	
	oonents:			
Isoeu Resul	genol: t	:	Irritation to eyes	, reversing within 21 days
Respi	ratory or skin sensi	tisatio	on	
Skin	sensitisation			



Isoeugenol Formulation

Version	Revision Date: 2024/09/28	SDS Number:	Date of last issue: 2024/04/06
11.0		4741412-00015	Date of first issue: 2019/08/13

Respiratory sensitisation

Not classified based on available information.

Components:

Isoeugenol:	
Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Humans
Method	: OECD Test Guideline 406
Result	: positive
Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: positive
Assessment	: Probability or evidence of high skin sensitisation rate in hu- mans

Germ cell mutagenicity

Not classified based on available information.

Components:

Isoeugenol:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Isoeugenol:

: Test Type: Two-generation reproduction toxicity study Effects on fertility Species: Rat **Application Route: Ingestion** Result: negative



Version 11.0	Revision Date: 2024/09/28		9S Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13	
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-foetal development :: Ingestion	
May c	- single exposure cause respiratory irritation conents:	n.			
	genol: ssment	:	May cause respir Based on data fro	atory irritation. om similar materials	
Not cl Repe a	STOT - repeated exposure Not classified based on available information. Repeated dose toxicity <u>Components:</u>				
Speci NOAE LOAE Applic	EL	: : : :	Rat 75 mg/kg 150 mg/kg Ingestion 14 Weeks		
•	ation toxicity assified based on availa	ble	information.		
	DGICAL INFORMATION	١			
	oxicity conents:				
Isoeu	genol: ity to fish	:	EC50 (Oncorhynd Exposure time: 90	chus mykiss (rainbow trout)): 5.1 mg/l 5 h	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 7.5 mg/l 3 h	
Toxici plants	ty to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72	ema costatum (marine diatom)): 3.76 mg/l 2 h	
			NOEC (Skeletone Exposure time: 72	ema costatum (marine diatom)): 1.7 mg/l 2 h	



Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Persistence and degradability Components: Isoeugenol: Biodegradability Biodegradability Centro and the second a	Version 11.0	Revision Date: 2024/09/28		S Number: 1412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13
aquatic invertebrates (Chron- ic toxicity) Exposure time: 21 d Method: OECD Test Guideline 211 Persistence and degradability Components: Isoeugenol: Biodegradability Biodegradability : Result: Readily biodegradable. Biodegradation: 79 % Exposure time: 28 d Method: OECD Test Guideline 301F Bioaccumulative potential Components: Isoeugenol: Partition coefficient: n- octanol/water Mobility in soil No data available Hazardous to the ozone layer Not data available 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging Contaminated packaging :					
Components: Isoeugenol: Biodegradability Result: Readily biodegradable. Biodegradation: 79 % Exposure time: 28 d Method: OECD Test Guideline 301F Bioaccumulative potential Components: Isoeugenol: Partition coefficient: n- Partition coefficient: n- log Pow: 3.04 octanol/water Mobility in soil No data available Hazardous to the ozone layer Not applicable Other adverse effects No data available Disposal methods Waste from residues Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging Empty containers should be taken to an approved waste ha dling site for recycling or dispose. If not otherwise specified: Dispose of as unused product.	aquat	tic invertebrates (Chron-	l	Exposure time: 2	1 d
Isoeugenol: Biodegradability : Result: Readily biodegradable. Biodegradation: 79 % Exposure time: 28 d Method: OECD Test Guideline 301F Bioaccumulative potential Components: Isoeugenol:	Persi	stence and degradabil	ity		
Biodegradability : Result: Readily biodegradable. Biodegradation: 79 % Exposure time: 28 d Method: OECD Test Guideline 301F Bioaccumulative potential Components: Isoeugenol: Partition coefficient: n- octanol/water Mobility in soil No data available Hazardous to the ozone layer Not applicable Iog Pow: 3.04 Other adverse effects No data available Other adverse effects No data available Disposal methods Waste from residues : Disposal methods : Waste from residues : Disposal methods : Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	Com	ponents:			
Components: Isoeugenol: Partition coefficient: n- octanol/water Mobility in soil No data available Hazardous to the ozone layer Not applicable Other adverse effects No data available 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		-		Biodegradation: Exposure time: 2	79 % 8 d
Isoeugenol: Partition coefficient: n- : log Pow: 3.04 Partition coefficient: n- : log Pow: 3.04 octanol/water Mobility in soil . No data available Hazardous to the ozone layer . Hazardous to the ozone layer Not applicable . Other adverse effects . . No data available . . 13. DISPOSAL CONSIDERATIONS . . Vaste from residues : Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	Bioa	ccumulative potential			
Partition coefficient: n- log Pow: 3.04 octanol/water Mobility in soil No data available Hazardous to the ozone layer Hazardous to the ozone layer Not applicable Other adverse effects Other adverse effects No data available Example 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	Com	ponents:			
No data available Hazardous to the ozone layer Not applicable Other adverse effects No data available 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	Partit	ion coefficient: n-	:	log Pow: 3.04	
Not applicable Other adverse effects No data available 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		-			
No data available 13. DISPOSAL CONSIDERATIONS Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		-	er		
Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	••				
 Waste from residues Contaminated packaging Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	13. DISPC	SAL CONSIDERATION	IS		
 Waste from residues Contaminated packaging Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	Dien	osal methods			
Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	-				
14. TRANSPORT INFORMATION	Conta	aminated packaging	:	Empty containers dling site for recy	s should be taken to an approved waste han- cling or disposal.
	14. TRAN	SPORT INFORMATION			
International Regulations		etional Descriptions			

U	NRTD	G

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class		Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no



Isoeugenol Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	4741412-00015	Date of first issue: 2019/08/13

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable





ersion .0	Revision Date: 2024/09/28	SDS Number: 4741412-00015	Date of last issue: 2 Date of first issue: 2	
on Ex Not a Circu on Not Not a	kisting Chemicals ha pplicable Ilar concerning Infor otified Substances h pplicable	aving Mutagenicity rmation on Chemical naving Mutagenicity	s having Mutagenicity s having Mutagenicity	
	tances Subject to be			
	e 57-2 (Enforcement (mical name		Concentration (%)	Remarks
_	ethoxy-4-(1-propenyl)	phenol	>=50 - <60	From April 1st, 20
Subs	tances Subject to be	e Indicated Names		
	e 57 (Enforcement Or			
	mical name			Remarks
2-Me	ethoxy-4-(1-propenyl)	phenol		From April 1st, 20
Not a Ordir	pplicable nance on Prevention		pecified Chemical Sul	
	pplicable			
	nance on Prevention pplicable	of Tetraalkyl Lead F	oisoning	
	nance on Prevention pplicable	of Organic Solvent	Poisoning	
Subs	r cement Order of the tances) pplicable	e Industrial Safety ar	id Health Law - Attach	ed table 1 (Dangerous
	onous and Deleterio	us Substances Cont	rol Law	
viron	ment and Promotion		s of Specific Chemical the Management The	
	pplicable			
High	Pressure Gas Safet	y Act		
Not a	pplicable			



Version 11.0	Revision Date: 2024/09/28		DS Number: 41412-00015	Date of last issue: 2024/04/06 Date of first issue: 2019/08/13		
Vesse	I Safety Law					
	gulated as a dangerous	s go	od			
Aviatio	on Law					
Not reg	Not regulated as a dangerous good					
Marine Pollution and Sea Disaster Prevention etc Law						
Bulk tra	ansportation	:	Noxious liquid sul	ostance(Category Y)		
Pack ti	ransportation	:	Not classified as r	marine pollutant		
Narco	tics and Psychotropic	s C	ontrol Act			
	Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable					
Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable						
Waste Disposal and Public Cleansing Law Industrial waste						
The components of this product are reported in the following inventories:						
AICS		:	not determined			
DSL		:	not determined			
IECSC	:	:	not determined			

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

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 Sys-



Isoeugenol Formulation

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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