

### **CAVITY PROTECTION SPRAY**

Version 6.0	Revision Date: 03/08/2019		DS Number: 38337-00002	Date of last issue: 11/20/2018 Date of first issue: 08/02/2013			
SECTIO	N 1. IDENTIFICATION						
Proc	Product name		CAVITY PROTECTION SPRAY				
Proc	duct code	:	0892082500				
Mar	ufacturer or supplier's	deta	ails				
Con	Company name of supplier		Wurth USA Inc.				
Address		:	93 Grant St. Ramsey, NJ 07446				
Tele	Telephone		(201) 825-2710				
Tele	Telefax		(201) 825-1643				
Eme	Emergency telephone		+1 800 255 3924				
E-m	E-mail address		prodsafe@wuerth.com				
Recommended use of the cl Recommended use		chen :	_				

#### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Flammable aerosols		Category 1
Gases under pressure	:	Compressed gas
Skin irritation	:	Category 2
Skin sensitization	:	Category 1
Specific target organ syste- mic toxicity - single exposure	:	Category 3
Aspiration hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H222 Extremely flammable aerosol. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways.



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			kin irritation. e an allergic skin reaction. e drowsiness or dizziness.
Precautionary Statements		Prevention:	y from heat/sparks/open flames/hot surfaces.
		No smoking. P211 Do not spr P251 Pressurize use.	ray on an open flame or other ignition source. ed container: Do not pierce or burn, even after
		P271 Use only c	thoroughly after handling. butdoors or in a well-ventilated area. ated work clothing must not be allowed out of
		CENTER/doctor P302 + P352 IF P304 + P340 + I and keep comfo CENTER/doctor P331 Do NOT ir P333 + P313 If s attention.	ON SKIN: Wash with plenty of soap and water. P312 IF INHALED: Remove person to fresh air rtable for breathing. Call a POISON if you feel unwell.
		<b>Storage:</b> P405 Store lock P410 + P412 Pr tures exceeding	otect from sunlight. Do not expose to tempera-
		<b>Disposal:</b> P501 Dispose o posal plant.	f contents/ container to an approved waste dis-
II Othe	r hazards		

Repeated exposure may cause skin dryness or cracking.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C6-C7, n-alkanes,	64742-49-0	>= 10 - < 20
isoalkanes, cyclics, <5% n-hexane		
Hydrocarbons, C10-C13, n-alkanes,	64742-48-9	>= 10 - < 20
isoalkanes, cyclics ,<2% aromatics		
Propane	74-98-6	>= 10 - < 20



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	ocarbons, C9-C11, n-a kanes, cyclics ,<2% ar		64742-48-9	>= 10 - < 20		
Butar	ne		106-97-8	>= 10 - < 20		
Isobu	Itane		75-28-5	>= 5 - < 10		
	ocarbons, C9-C10, n-a kanes, cyclics ,<2% ar		64742-49-0	) >= 5 - < 10		
Calci	um petroleum sulfona	tes	61789-86-4	4 >= 1 - < 5		
	lates (petroleum), hyd y naphthenic	rotreated	64742-52-5	5 >= 1 - < 5		
Actua	al concentration is with	held as a	trade secret			
SECTION	4. FIRST AID MEAS	URES				
Gene	eral advice	vic		accident or if you feel unwell, seek medical ad- ly. ns persist or in all cases of doubt seek medical		
lf inha	aled		If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In ca	se of skin contact	for an Ge Wa	<ul> <li>In case of contact, immediately flush skin with plenty of wate for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>			
In ca	se of eye contact		: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
lf swa	allowed	lf v Ca	: If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately.			

		Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Prolonged or repeated contact may dry skin and cause irritati- on.
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.
Notes to physician	:	Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray



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			Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing media		None known.		
•	Specific hazards during fire fighting		Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.		
Ha uct	zardous combustion prod- s	:	Carbon oxides Metal oxides Sulfur oxides		
	Specific extinguishing meth- ods		cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	ecial protective equipment fire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.	

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	<ul> <li>Non-sparking tools should be used.</li> <li>Soak up with inert absorbent material.</li> <li>Suppress (knock down) gases/vapors/mists with a water spray jet.</li> <li>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.</li> <li>Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine</li> </ul>



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				s are applicable. 15 of this SDS provide information regarding ational requirements.	
ECTION	7. HANDLING AND ST	OR	AGE		
Techr	ical measures	:		measures under EXPOSURE RSONAL PROTECTION section.	
Local/Total ventilation		:	Use with local exhaust ventilation. Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential		
Advice on safe handling		:	Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to environment.		
			Do not spray on	an open flame or other ignition source.	
Condi	tions for safe storage	:	Store in accorda	rell-ventilated place. nce with the particular national regulations. burn, even after use.	
Mater	ials to avoid	:	Self-reactive sub Organic peroxide Oxidizing agents Flammable solids Pyrophoric liquid Pyrophoric solids Self-heating subs	s s stances and mixtures mixtures which in contact with water emit	
Recor peratu	nmended storage tem- ire	:	32 - 104 °F / 0 - 4	40 °C	



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m³	OSHA Z-1
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cy- clics ,<2% aromatics	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m <sup>3</sup>	ACGIH
Propane	74-98-6	TWA	1,000 ppm 1,800 mg/m³	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m³	OSHA Z-1
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cy- clics ,<2% aromatics	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m <sup>3</sup>	ACGIH
Butane	106-97-8	TWA	800 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		STEL	1,000 ppm	ACGIH
Isobutane	75-28-5	TWA	800 ppm 1,900 mg/m³	NIOSH REL
		STEL	1,000 ppm	ACGIH
Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cy- clics ,<2% aromatics	64742-49-0	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL

Engineering measures

: Minimize workplace exposure concentrations.



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		ventilation potential Use with lo Dust forma duct. In add ons of cond have to be vant limits i Regulated fraction; an soluble) No	an area equipped with explosion-proof exhaust if advised by assessment of the local exposure cal exhaust ventilation. tion may be relevant in the processing of this pro- dition to substance-specific OELs, general limitati- centrations of particulates in the air at workplaces considered in workplace risk assessment. Rele- nclude: OSHA PEL for Particulates Not Otherwise of 15 mg/m3 - total dust, 5 mg/m3 - respirable d ACGIH TWA for Particles (insoluble or poorly of Otherwise Specified of 3 mg/m3 - respirable 0 mg/m3 - inhalable particles.
Pers	onal protective equip	oment	
	iratory protection	: General an maintain va concentrati unknown, a Follow OSH use NIOSH by air purify dous chem respirator if exposure le	d local exhaust ventilation is recommended to apor exposures below recommended limits. Where ons are above recommended limits or are appropriate respiratory protection should be worn. HA respirator regulations (29 CFR 1910.134) and //MSHA approved respirators. Protection provided /ing respirators against exposure to any hazar- ical is limited. Use a positive pressure air supplied there is any potential for uncontrolled release, evels are unknown, or any other circumstance urifying respirators may not provide adequate
Hand	protection		
	aterial	: Nitrile rubb : > 480 min	er
	reak through time love thickness	: >= 0.12 mr	n
R	emarks	on the cond applications micals of th	eves to protect hands against chemicals depending centration specific to place of work. For special s, we recommend clarifying the resistance to che- be aforementioned protective gloves with the glove rer. Wash hands before breaks and at the end of
Eye p	protection	: Wear the fo Safety glas	bllowing personal protective equipment: ses
Skin	and body protection	resistance potential. Wear the fo Flame reta sment dem or flash fire Skin contac	ropriate protective clothing based on chemical data and an assessment of the local exposure ollowing personal protective equipment: rdant antistatic protective clothing, unless asses- onstrates that the risk of explosive atmospheres s is low. ct must be avoided by using impervious protective oves, aprons, boots, etc).



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Hygie	ne measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.
SECTION	9. PHYSICAL AND CHI	EMI	CAL PROPERTIES	8
Appea	arance	:	Aerosol containir	ng a compressed gas
Prope	llant	:	Propane, Butane	, Isobutane
Color		:	off-white	
Odor		:	characteristic	
Odor	Threshold	:	No data available	9
pН		:	No data available	9
Meltin	g point/freezing point	:	No data available	9
Initial range	boiling point and boiling	:	-48.1 °F / -44.5 °	с
Flash	point	:	84 °F / 29 °C	
			Flash point is onl	y valid for liquid portion in the aerosol can.
Evapo	pration rate	:	Not applicable	
Flamr	nability (solid, gas)	:	Extremely flamm	able aerosol.
	explosion limit / Upper ability limit	:	10.9 %(V)	
	r explosion limit / Lower ability limit	:	0.6 %(V)	
Vapor	pressure	:	3,500 hPa (68 °F	7 / 20 °C)
Relati	ve vapor density	:	Not applicable	
Densi	ty	:	0.69 g/cm <sup>3</sup> (68 °f Method: DIN 517	
	ility(ies) ater solubility	:	partly miscible	
	on coefficient: n- ol/water	:	Not applicable	
Autoig	nition temperature	:	> 392 °F / > 200	°C



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Dec	omposition temperature	: No	o data available	9
	osity /iscosity, kinematic	: No	ot applicable	
Exp	losive properties	: No	ot explosive	
Oxio	dizing properties	: Tł	e substance o	r mixture is not classified as oxidizing.
Part	icle size	: No	ot applicable	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Extremely flammable aerosol. Vapors may form explosive mixture with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

**Components:** 

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.61 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
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ersion .0	Revision Date: 03/08/2019	SDS Number:Date of last issue3038337-00002Date of first issue	
		Remarks: Based on data from simila	ar materials
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 4,951 mg/m<sup>3</sup></li> <li>Exposure time: 4 h</li> <li>Test atmosphere: vapor</li> <li>Assessment: The substance or mixt tion toxicity</li> <li>Remarks: Based on data from similar</li> </ul>	
Acute	dermal toxicity	: LD50 (Rabbit): >= 3,160 mg/kg Assessment: The substance or mixt toxicity Remarks: Based on data from simila	
Propa	ane:		
	inhalation toxicity	: LC50 (Rat): > 800000 ppm Exposure time: 15 min Test atmosphere: gas	
Hydro	ocarbons, C9-C11, n	kanes, isoalkanes, cyclics ,<2% aroma	atics:
Acute	oral toxicity	<ul> <li>LD50 (Rat): &gt; 5,000 mg/kg</li> <li>Method: OECD Test Guideline 401</li> <li>Remarks: Based on data from simila</li> </ul>	ar materials
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5,600 mg/m<sup>3</sup> Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixt tion toxicity Remarks: Based on data from similar</li> </ul>	
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from simila	ar materials
Butar	ne:		
Acute	inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: vapor	
Isobu	tane:		
Acute	inhalation toxicity	: LC50 (Mouse): 260200 ppm Exposure time: 4 h Test atmosphere: gas	
Hydro	ocarbons, C9-C10. n·	kanes, isoalkanes, cyclics ,<2% aroma	atics:
	oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from simila	
Acute	inhalation toxicity	: LC50 (Rat): > 4,951 mg/m <sup>3</sup> Exposure time: 4 h Test atmosphere: vapor	



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rsion	Revision Date: 03/08/2019	SDS Number: 3038337-00002	Date of last issue: 11/20/2018 Date of first issue: 08/02/2013
		tion toxicity	The substance or mixture has no acute inhala- sed on data from similar materials
Acute	e dermal toxicity	toxicity	:): > 3,160 mg/kg The substance or mixture has no acute dermal sed on data from similar materials
Calci	um petroleum sulfor	ates:	
	oral toxicity	: LD50 (Rat): >	⊳ 5,000 mg/kg CD Test Guideline 401
Acute	inhalation toxicity	Assessment: tion toxicity	
Acute	e dermal toxicity	: LD50 (Rabbit Assessment: toxicity	:): > 4,000 mg/kg The substance or mixture has no acute derma
Distil	lates (petroleum), hy	drotreated heavy n	aphthenic:
Acute	oral toxicity		<ul> <li>5,000 mg/kg</li> <li>D Test Guideline 401</li> <li>sed on data from similar materials</li> </ul>
Acute	inhalation toxicity	: LC50 (Rat): > Exposure tim	
		Test atmosph Method: OEC Assessment: tion toxicity	nere: dust/mist CD Test Guideline 403
Acute	e dermal toxicity	Test atmosph Method: OEC Assessment: tion toxicity Remarks: Bas : LD50 (Rabbit Method: OEC	nere: dust/mist D Test Guideline 403 The substance or mixture has no acute inhala-
Skin	e dermal toxicity corrosion/irritation es skin irritation.	Test atmosph Method: OEC Assessment: tion toxicity Remarks: Bas : LD50 (Rabbit Method: OEC	here: dust/mist CD Test Guideline 403 The substance or mixture has no acute inhala- sed on data from similar materials c): > 5,000 mg/kg CD Test Guideline 402
Skin Caus	corrosion/irritation	Test atmosph Method: OEC Assessment: tion toxicity Remarks: Bas : LD50 (Rabbit Method: OEC	here: dust/mist CD Test Guideline 403 The substance or mixture has no acute inhala- sed on data from similar materials c): > 5,000 mg/kg CD Test Guideline 402
Skin Caus <u>Com</u>	corrosion/irritation es skin irritation. ponents:	Test atmosph Method: OEC Assessment: tion toxicity Remarks: Bas : LD50 (Rabbit Method: OEC Remarks: Bas	here: dust/mist CD Test Guideline 403 The substance or mixture has no acute inhala- sed on data from similar materials c): > 5,000 mg/kg CD Test Guideline 402
Skin Caus <u>Com</u>	corrosion/irritation es skin irritation. ponents: pcarbons, C6-C7, n-a	Test atmosph Method: OEC Assessment: tion toxicity Remarks: Bas : LD50 (Rabbit Method: OEC Remarks: Bas	here: dust/mist CD Test Guideline 403 The substance or mixture has no acute inhala- sed on data from similar materials c): > 5,000 mg/kg CD Test Guideline 402 sed on data from similar materials , cyclics, <5% n-hexane:

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics ,<2% aromatics:



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Speci		: Rabbit	
Resul	lt	: Mild skin irritation	on
Asses	ssment	: Repeated expo	sure may cause skin dryness or cracking.
Hydro	ocarbons, C9-C11, r	-alkanes, isoalkanes,	cyclics ,<2% aromatics:
Resul	lt	: Mild skin irritatio	n
Asses	ssment	: Repeated expo	sure may cause skin dryness or cracking.
Hydro	ocarbons, C9-C10, r	-alkanes, isoalkanes,	cyclics ,<2% aromatics:
Speci		: Rabbit	
Resu	lt	: Mild skin irritation	on
Asses	ssment	: Repeated expo	sure may cause skin dryness or cracking.
Calci	um petroleum sulfo	nates:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test Gu	
Resu	-	: No skin irritation	
Rema	arks	: Based on data	rom similar materials
Distil	lates (petroleum), h	ydrotreated heavy nap	hthenic:
Speci	es	: Rabbit	
Resu	lt	: No skin irritatior	
Rema	arks	: Based on data	rom similar materials
		irritation	
Serio	us eye damage/eye	Initation	
	us eye damage/eye lassified based on av		
Not cl			
Not cl <u>Comp</u> Hydro	lassified based on ave ponents: pocarbons, C6-C7, n-	ailable information. alkanes, isoalkanes, c	yclics, <5% n-hexane:
Not cl <u>Comp</u> Hydro Speci	lassified based on ava ponents: pcarbons, C6-C7, n- les	ailable information. alkanes, isoalkanes, c : Rabbit	
Not cl <u>Comp</u> Hydro	lassified based on ava ponents: pcarbons, C6-C7, n- les	ailable information. alkanes, isoalkanes, c	
Not cl <u>Com</u> Hydro Speci Resul	lassified based on ava ponents: pcarbons, C6-C7, n- les It	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritatior	
Not cl Comp Hydro Speci Resul Hydro Speci	lassified based on ava ponents: pcarbons, C6-C7, n- les lt pcarbons, C10-C13, les	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit	, cyclics ,<2% aromatics:
Not cl <u>Comp</u> Hydro Speci Resul Speci Resul	lassified based on ava ponents: ocarbons, C6-C7, n- les lt ocarbons, C10-C13, les lt	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation	, cyclics ,<2% aromatics:
Not cl Comp Hydro Speci Resul Speci Resul Metho	lassified based on ava ponents: ocarbons, C6-C7, n- les lt ocarbons, C10-C13, les lt od	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui	, <b>cyclics</b> , <b>&lt;2% aromatics</b> : deline 405
Not cl <u>Comp</u> Hydro Speci Resul Speci Resul	lassified based on ava ponents: ocarbons, C6-C7, n- les lt ocarbons, C10-C13, les lt od	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui	, cyclics ,<2% aromatics:
Not cl <u>Comp</u> Hydro Speci Resul Resul Metho Rema	lassified based on ava ponents: pcarbons, C6-C7, n- les lt pcarbons, C10-C13, les lt od arks	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui : Based on data f	, <b>cyclics</b> , <b>&lt;2% aromatics</b> : deline 405
Not cl <u>Comp</u> Hydro Speci Resul Resul Metho Rema	lassified based on ava <u>ponents:</u> pcarbons, C6-C7, n- les It pcarbons, C10-C13, les It pd arks pcarbons, C9-C11, n	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui : Based on data f	<b>, cyclics ,&lt;2% aromatics:</b> deline 405 from similar materials
Not cl Comp Hydro Speci Resul Speci Resul Metho Rema	lassified based on ava ponents: pcarbons, C6-C7, n- les It pcarbons, C10-C13, les It pd arks pcarbons, C9-C11, n les	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui : Based on data f -alkanes, isoalkanes, : Rabbit : No eye irritation	, cyclics ,<2% aromatics: deline 405 from similar materials cyclics ,<2% aromatics:
Not cl Comp Hydro Speci Resul Mydro Resul Metho Rema Hydro Speci	lassified based on ava <u>ponents:</u> <b>pcarbons, C6-C7, n-</b> les It <b>pcarbons, C10-C13,</b> les It <b>pcarbons, C9-C11, n</b> les It <b>pcarbons, C9-C11, n</b> les It pd	ailable information. alkanes, isoalkanes, c : Rabbit : No eye irritation n-alkanes, isoalkanes : Rabbit : No eye irritation : OECD Test Gui : Based on data f -alkanes, isoalkanes, : Rabbit : No eye irritation : OECD Test Gui	, <b>cyclics ,&lt;2% aromatics:</b> deline 405 from similar materials <b>cyclics ,&lt;2% aromatics:</b>



### **CAVITY PROTECTION SPRAY**

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Hydr	ocarbons, C9-C10, n	-alkanes, isoalkanes,	cyclics ,<2% aromatics:
Spec	ies	: Rabbit	
Resu	lt	: No eye irritatior	
Meth	od	: OECD Test Gu	
Rema	arks	: Based on data	from similar materials
Calci	um petroleum sulfo	nates:	
Spec	ies	: Rabbit	
Resu	lt	: No eye irritation	1
Meth		: OECD Test Gui	
Rema	arks	: Based on data	from similar materials
Disti	llates (petroleum), h	ydrotreated heavy nag	ohthenic:
Spec	ies	: Rabbit	
Resu	lt	: No eye irritatior	1
Rema	arks	: Based on data	from similar materials
Resp	iratory or skin sensi	tization	
Skin	sensitization		
May	cause an allergic skin	reaction.	
Resp	piratory sensitization		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Hydr	ocarbons, C6-C7, n-a	alkanes, isoalkanes, c	yclics, <5% n-hexane:
Test		: Buehler Test	
	es of exposure	: Skin contact	
Spec		: Guinea pig	
Resu	It	: negative	
Hydr	ocarbons, C10-C13,	n-alkanes, isoalkanes	, cyclics ,<2% aromatics:
Test	Туре	: Maximization Te	est
	es of exposure	: Skin contact	
Spec		: Guinea pig	
Resu		: negative	
Rema	arks	: Based on data	from similar materials

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

Test Type Routes of exposure Species Result	: : :	Maximization Test Skin contact Guinea pig negative
Remarks		Based on data from similar materials

### Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig



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Resu	lt	: negative					
Rema			from similar materials				
Calci	um petroleum sulfo	nates:					
Test	Туре	: Buehler Test					
	es of exposure	: Skin contact					
Speci		: Guinea pig					
Resu		: positive					
Assessment			: Probability or evidence of low to moderate skin sensitization rate in humans				
Distil	lates (petroleum), h	ydrotreated heavy na	phthenic:				
Test		: Buehler Test					
	es of exposure	: Skin contact					
Speci		: Guinea pig					
Resu		: negative	from similar materials				
Rema	arks	. Based on data	from similar materials				
	<b>cell mutagenicity</b> lassified based on av	ailable information					
-	ponents:						
-			cyclics, <5% n-hexane:				
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e				
Geno	toxicity in vivo	: Test Type: Ma	mmalian erythrocyte micronucleus test (in vivo				
		cytogenetic as	say)				
		Species: Rat					
			ute: inhalation (vapor)				
		Method: OPPT Result: negativ					
المرام الم	aaarbana 010 010	n alkanaa isaalkara	a avalias (20) aromaticas				
-			s, cyclics ,<2% aromatics: /itro mammalian cell gene mutation test				
-	ocarbons, C10-C13, toxicity in vitro	: Test Type: In v	vitro mammalian cell gene mutation test				
-		: Test Type: In v Result: negativ	vitro mammalian cell gene mutation test				
Geno		: Test Type: In v Result: negativ Remarks: Base : Test Type: Ma	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo				
Geno	toxicity in vitro	: Test Type: In v Result: negativ Remarks: Base : Test Type: Ma cytogenetic as	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say)				
Geno	toxicity in vitro	<ul> <li>Test Type: In v Result: negativ Remarks: Base</li> <li>Test Type: Ma cytogenetic as Species: Mous</li> </ul>	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se				
Geno	toxicity in vitro	: Test Type: In v Result: negativ Remarks: Base : Test Type: Ma cytogenetic as	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se ute: Ingestion				
Geno	toxicity in vitro	<ul> <li>Test Type: In v Result: negativ Remarks: Base</li> <li>Test Type: Ma cytogenetic as Species: Mous Application Ro</li> </ul>	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se ute: Ingestion				
Geno Geno Propa	toxicity in vitro toxicity in vivo	<ul> <li>Test Type: In v Result: negativ Remarks: Base</li> <li>Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ</li> </ul>	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se ute: Ingestion ve				
Geno Geno Propa	toxicity in vitro	<ul> <li>Test Type: In v Result: negativ Remarks: Base</li> <li>Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ</li> </ul>	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se ute: Ingestion ve				
Geno Geno Propa Geno	toxicity in vitro toxicity in vivo	<ul> <li>Test Type: In v Result: negativ Remarks: Base</li> <li>Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ</li> <li>Test Type: Base Result: negativ</li> </ul>	vitro mammalian cell gene mutation test ve ed on data from similar materials mmalian erythrocyte micronucleus test (in vivo say) se ute: Ingestion ve cterial reverse mutation assay (AMES) ve mmalian erythrocyte micronucleus test (in vivo				



ersion .0	Revision Date: 03/08/2019	SDS Number: 3038337-00002	Date of last issue: 11/20/2018 Date of first issue: 08/02/2013
			ute: inhalation (gas) ) Test Guideline 474 e
Hydro	ocarbons, C9-C11, r	n-alkanes, isoalkanes,	cyclics ,<2% aromatics:
Geno	toxicity in vitro	Method: OECD Result: negativ	sterial reverse mutation assay (AMES) ) Test Guideline 471 e ed on data from similar materials
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro Result: negativ	e ute: Ingestion
Butar	ne:		
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	eterial reverse mutation assay (AMES)
Geno	toxicity in vivo	cytogenetic ass Species: Rat Application Ro Method: OECD Result: negativ	ute: inhalation (gas) ) Test Guideline 474
II Isobu	itane:		
	toxicity in vitro	Method: OECD Result: negativ	omosome aberration test in vitro ) Test Guideline 473 e ed on data from similar materials
Geno	toxicity in vivo	cytogenetic as Species: Rat Application Ro Method: OECD Result: negativ	ute: inhalation (gas) ) Test Guideline 474
<b>  </b>	easthana 00 040		avalias (20/ arcmatics)
	ocarbons, C9-C10, r toxicity in vitro	: Test Type: In v Result: negativ	cyclics ,<2% aromatics: itro mammalian cell gene mutation test e ed on data from similar materials
Geno	toxicity in vivo	: Test Type: Mai cytogenetic as Species: Mous	



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		Application Result: ne	n Route: Ingestion gative				
Calci	um petroleum sulfo	nates:					
	toxicity in vitro	: Test Type	: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative				
Geno	toxicity in vivo	cytogeneti Species: M Application	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative				
Disti	llates (petroleum), h	vdrotreated heav	v naphthenic:				
	toxicity in vitro	: Test Type	: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471				
Geno	toxicity in vivo	cytogeneti Species: M Application Method: C Result: ne	Mouse n Route: Intraperitoneal injection DECD Test Guideline 474				
	<b>inogenicity</b> lassified based on av	cilchle information					
	ponents:						
-			nes, cyclics, <5% n-hexane:				
Spec		: Mouse					
	cation Route sure time	: Skin conta : 102 weeks					
Resu		: negative	>				
-		n-alkanes, isoalk	anes, cyclics ,<2% aromatics:				
Spec		: Rat					
	cation Route	: inhalation					
Resu	sure time	: 105 weeks : negative	3				
Rema		•	data from similar materials				
Hvdr	ocarbons. C9-C11. r	-alkanes. isoalka	anes, cyclics ,<2% aromatics:				
Spec		: Rat					
	cation Route	: inhalation	(vapor)				
	sure time	: 105 weeks					
Resu	lt	: negative					
Rema	arks	: Based on	data from similar materials				



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Hydro	ocarbons, C9-C10, n-a	lkanes, isoalkanes, c	vclics ,<2% aromatics:
Specie	es	: Rat	
Applic	ation Route	: inhalation (vapor)	
Expos Result	sure time	: 105 weeks	
Resul		: negative : Based on data fro	om similar materials
INCINA		. Dased on data no	
Distill	ates (petroleum), hyd	rotreated heavy naph	thenic:
Specie	es	: Mouse	
Applic	ation Route	: Skin contact	
Expos	sure time	: 78 weeks	
Metho	d	: OECD Test Guide	eline 451
Resul	t	: negative	
IARC			t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSHA		nt of this product prese st of regulated carcinog	nt at levels greater than or equal to 0.1% is gens.
NTP		of this product presen known or anticipated	t at levels greater than or equal to 0.1% is carcinogen by NTP.
Not cl	oductive toxicity assified based on availa ponents:	able information.	
Hydro	ocarbons, C6-C7, n-all	anes, isoalkanes, cy	clics, <5% n-hexane:
Effect	s on fertility	: Test Type: Two-o	eneration reproduction toxicity study
	o on totunty	Species: Rat	
			: inhalation (vapor)
		Result: negative	
Effect	s on fetal development		vo-fetal development
		Species: Rat	
		Application Route Result: negative	: inhalation (vapor)
		recoult negative	
•			cyclics ,<2% aromatics:
Effect	s on fertility	: Test Type: Repro	duction/Developmental toxicity screening
		test	
		Species: Rat	
			: inhalation (vapor)
		Result: negative	
Effect	s on fetal development		vo-fetal development
		Species: Rat	v inholation (vanar)
			: inhalation (vapor)
		Result: negative	
Propa	ine:		



ersion 6.0	Revision Date: 03/08/2019		S Number: 38337-00002	Date of last issue: 11/20/2018 Date of first issue: 08/02/2013
Effect	s on fertility	:	reproduction/de Species: Rat Application Rou	bined repeated dose toxicity study with the velopmental toxicity screening test te: inhalation (gas) Test Guideline 422
Effect	s on fetal development	:	reproduction/de Species: Rat Application Rou	abined repeated dose toxicity study with the velopmental toxicity screening test te: inhalation (gas) Test Guideline 422
Hydro	ocarbons, C9-C11, n-al	kan	es, isoalkanes,	cyclics ,<2% aromatics:
Effect	s on fertility	:	Species: Rat Application Rou Result: negative	
Effect	s on fetal development	:	Species: Rat Application Rou Result: negative	oryo-fetal development ite: inhalation (vapor) e d on data from similar materials
Butar	1e:			
Effect	s on fertility	:	reproduction/de Species: Rat Application Rou	bined repeated dose toxicity study with the velopmental toxicity screening test te: inhalation (gas) Test Guideline 422
Effect	s on fetal development	:	reproduction/de Application Rou	bined repeated dose toxicity study with the velopmental toxicity screening test te: inhalation (gas) Test Guideline 422
Isobu	tane:			
Effect	s on fertility	:	reproduction/de Species: Rat Application Rou	Test Guideline 422
Effect	s on fetal development	:	reproduction/de Species: Rat	bined repeated dose toxicity study with the velopmental toxicity screening test te: inhalation (gas)



ersion )	Revision Date: 03/08/2019	SDS Number:Date of last issue: 11/20/20183038337-00002Date of first issue: 08/02/2013	
		Method: OECD Test Guideline 422 Result: negative	
Calci	um petroleum sulfo	ates:	
Effec	ts on fertility	: Test Type: One-generation reproduction toxicity Species: Rat Application Route: Ingestion Method: OECD Test Guideline 415 Result: negative Remarks: Based on data from similar materials	study
STO	T-single exposure		
Mayo	cause drowsiness or o	zziness.	
Com	ponents:		
Hydr	ocarbons, C6-C7, n-	lkanes, isoalkanes, cyclics, <5% n-hexane:	
-	ssment	: May cause drowsiness or dizziness.	
_			
Prop			
Asse	ssment	: May cause drowsiness or dizziness.	
Hvdr	ocarbons C9-C11 n	alkanes, isoalkanes, cyclics ,<2% aromatics:	
-	ssment	: May cause drowsiness or dizziness.	
		,	
Buta	ne:		
Asse	ssment	: May cause drowsiness or dizziness.	
loobi	utane:		
12001	liane.		
Acco	semant	· May cause droweiness or dizziness	
Asse	ssment	: May cause drowsiness or dizziness.	
		: May cause drowsiness or dizziness. alkanes, isoalkanes, cyclics ,<2% aromatics:	
Hydr			
Hydr Asse	<b>ocarbons, C9-C10, n</b> ssment	alkanes, isoalkanes, cyclics ,<2% aromatics:	
Hydr Asses STOT	ocarbons, C9-C10, n ssment <b>Γ-repeated exposure</b>	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness.	
Hydro Asses STOT	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness.	
Hydro Asses STOT	ocarbons, C9-C10, n ssment <b>Γ-repeated exposure</b>	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness.	
Hydro Asses STOT Not c Repe	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness.	
Hydr Asses STOT Not c Repe	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava eated dose toxicity ponents:	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness.	
Hydra Asses STOT Not c Repe Com Hydra Spec	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava eated dose toxicity ponents: ocarbons, C6-C7, n-a	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness. lable information. Ikanes, isoalkanes, cyclics, <5% n-hexane: : Rat	
Hydra Masses STOT Not c Repe Com Hydra Spec NOAI	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava <b>cated dose toxicity</b> <u>ponents:</u> ocarbons, C6-C7, n-a ies EL	<ul> <li>alkanes, isoalkanes, cyclics ,&lt;2% aromatics:</li> <li>May cause drowsiness or dizziness.</li> <li>lable information.</li> <li>lkanes, isoalkanes, cyclics, &lt;5% n-hexane:</li> <li>Rat</li> <li>&gt; 20 mg/l</li> </ul>	
Hydra Masses STOT Not c Repe Com Hydra Spec NOAI Applia	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava eated dose toxicity ponents: ocarbons, C6-C7, n-a	alkanes, isoalkanes, cyclics ,<2% aromatics: : May cause drowsiness or dizziness. lable information. Ikanes, isoalkanes, cyclics, <5% n-hexane: : Rat	
Hydra Masses STOT Not c Repe Com Hydra Spec NOAI Applia	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava <b>cated dose toxicity</b> <b>ponents:</b> ocarbons, C6-C7, n- ies EL cation Route	<ul> <li>alkanes, isoalkanes, cyclics ,&lt;2% aromatics:</li> <li>May cause drowsiness or dizziness.</li> <li>lable information.</li> <li>lkanes, isoalkanes, cyclics, &lt;5% n-hexane:</li> <li>Rat</li> <li>&gt; 20 mg/l</li> <li>inhalation (vapor)</li> </ul>	
Hydra Asses STOT Not c Repe Com Hydr Spec NOAI Applie Expo	ocarbons, C9-C10, n ssment <b>F-repeated exposure</b> lassified based on ava <b>cated dose toxicity</b> <b>ponents:</b> <b>ocarbons, C6-C7, n</b> -a ies EL cation Route sure time	<ul> <li>alkanes, isoalkanes, cyclics ,&lt;2% aromatics:</li> <li>May cause drowsiness or dizziness.</li> <li>lable information.</li> <li>lkanes, isoalkanes, cyclics, &lt;5% n-hexane:</li> <li>Rat</li> <li>&gt; 20 mg/l</li> <li>inhalation (vapor)</li> </ul>	



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	cation Route sure time		>= 1,000 mg/kg Ingestion 54 Days Based on data fro	om similar materials
Prop				
Spec NOA		:	Rat 7.214 mg/l	
	cation Route	÷	inhalation (gas)	
Expo	sure time	:	6 Weeks	
Meth	od	-	OECD Test Guide	eline 422
-	ocarbons, C9-C11, n-a	lkar	nes, isoalkanes, cy	clics ,<2% aromatics:
Spec		:	Rat	
NOA Appli	cation Route	:	>= 1,000 mg/kg Ingestion	
	sure time	÷	54 Days	
Rema	arks	:	Based on data fro	om similar materials
Buta	ne:			
Spec		:	Rat	
NOA		:	9000 ppm inhalation (gas)	
	cation Route sure time	÷	6 Weeks	
Meth		:	OECD Test Guide	eline 422
Isobu	utane:			
Spec		:	Rat	
NOA		:	9000 ppm	
	cation Route sure time	:	inhalation (gas) 6 Weeks	
Meth		:	OECD Test Guide	eline 422
Hydr	ocarbons, C9-C10, n-a	lkar	nes, isoalkanes, cy	clics ,<2% aromatics:
Spec		:	Rat	
NOA	EL cation Route	:	10,186 mg/m <sup>3</sup> inhalation (vapor)	
	sure time	:	13 Weeks	
Calci	ium petroleum sulfona	tes		
Spec	•	:	Rat	
-		:	> 1000 mg/kg	
Appli	cation Route sure time	:	Skin contact	
Expo Meth		:	28 Days OECD Test Guide	eline 410
Rema		:		om similar materials
Disti	llates (petroleum), hyd	rotr	eated heavy naph	thenic:
Spec		:	Rat	
NOA		:	> 0.98 mg/l	



### **CAVITY PROTECTION SPRAY**

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Applic Expos Rema	cation Route sure time ırks	: 28 Days	dust/mist/fume) ata from similar materials

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

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.

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

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.

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

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.

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

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.

#### Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics ,<2% aromatics:

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.

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction



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			Method: OECD T Remarks: Based	est Guideline 201 on data from similar materials
			mg/l Exposure time: 72 Test substance: V Method: OECD T	Vater Accommodated Fraction
	y to daphnia and other c invertebrates (Chron- city)	:	NOELR (Daphnia Exposure time: 2 <sup>,</sup> Method: OECD T	
Hydro	carbons, C10-C13, n-a	alka	nes, isoalkanes, o	cyclics ,<2% aromatics:
-	ry to fish	:	LL50 (Oncorhync Exposure time: 96 Test substance: V	hus mykiss (rainbow trout)): > 1,000 mg/l
	ry to daphnia and other c invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD T	Vater Accommodated Fraction
			1,000 mg/l Exposure time: 72 Test substance: V Method: OECD T	Vater Accommodated Fraction
	ry to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2' Method: OECD T	
Hydro	carbons, C9-C11, n-al	kan	es, isoalkanes. cv	vclics ,<2% aromatics:
-	y to fish	:	LL50 (Oncorhync Exposure time: 96 Test substance: V	hus mykiss (rainbow trout)): > 1,000 mg/l
	y to daphnia and other c invertebrates	:	Exposure time: 48	Vater Accommodated Fraction



ersion .0	Revision Date: 03/08/2019		98 Number: 38337-00002	Date of last issue: 11/20/2018 Date of first issue: 08/02/2013
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7 Test substance: 1	chneriella subcapitata (green algae)): > 1,00 2 h Water Accommodated Fraction <sup>c</sup> est Guideline 201
			mg/l Exposure time: 7 Test substance:	kirchneriella subcapitata (green algae)): 100 2 h Water Accommodated Fraction Test Guideline 201
Hydro	carbons, C9-C10, n-all	kan	es, isoalkanes, c	yclics ,<2% aromatics:
Toxicit	y to fish	:	Exposure time: 9 Test substance: Method: OECD 1	hus mykiss (rainbow trout)): > 10 - 30 mg/l 6 h Water Accommodated Fraction Test Guideline 203 on data from similar materials
	y to daphnia and other c invertebrates	:	Exposure time: 4 Test substance: Method: OECD 1	nagna (Water flea)): > 22 - 46 mg/l 8 h Water Accommodated Fraction est Guideline 202 on data from similar materials
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7 Test substance: Method: OECD 1	chneriella subcapitata (green algae)): > 1,00 2 h Water Accommodated Fraction Test Guideline 201 on data from similar materials
			mg/l Exposure time: 7 Test substance: Method: OECD 1	kirchneriella subcapitata (green algae)): 1 2 h Water Accommodated Fraction est Guideline 201 on data from similar materials
Calciu	m petroleum sulfonate	es:		
Toxicit	y to fish	:	10,000 mg/l Exposure time: 9 Test substance:	n variegatus (sheepshead minnow)): > 6 h Water Accommodated Fraction Test Guideline 203
	y to daphnia and other c invertebrates	:	Exposure time: 4 Test substance:	nagna (Water flea)): > 1,000 mg/l 8 h Water Accommodated Fraction on data from similar materials
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokii 1,000 mg/l	chneriella subcapitata (green algae)): >



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				2 h Nater Accommodated Fraction on data from similar materials
			mg/l Exposure time: 7 Test substance: \	rchneriella subcapitata (green algae)): 1,000 2 h Water Accommodated Fraction on data from similar materials
Тохіс	ity to microorganisms	:	EC50: > 10,000 r Exposure time: 3 Method: OECD T	
Distil	lates (petroleum), hydr	otre	eated heavy naph	thenic:
	ity to fish	:	LC50 (Pimephale Exposure time: 9 Method: OECD T	es promelas (fathead minnow)): > 100 mg/l
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 10,000 mg/l 8 h on data from similar materials
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	chneriella subcapitata (green algae)): > 100 2 h Test Guideline 201 on data from similar materials
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 10 mg/l 1 d on data from similar materials
Toxic	ity to microorganisms	:	NOEC: > 1.93 mg Exposure time: 1 Remarks: Based	
II Persi	stence and degradabili	ity		
	ponents:	-		
Hydr	ocarbons, C6-C7, n-alk	ane	s, isoalkanes, cy	clics, <5% n-hexane:
-	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	iodegradable. 77.05 %
Hydr	ocarbons, C10-C13, n-a	alka	nes, isoalkanes, (	cyclics ,<2% aromatics:
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	80 %
			24 / 30	



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		Remarks: Based on data from similar materials
Propa	ane:	
	egradability	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 100 %</li> <li>Exposure time: 385.5 h</li> <li>Remarks: Based on data from similar materials</li> </ul>
Hydro	ocarbons, C9-C11, n	alkanes, isoalkanes, cyclics ,<2% aromatics:
Biode	gradability	: Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 28 d Method: OECD Test Guideline 301F
Butar	ne:	
	gradability	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 100 %</li> <li>Exposure time: 385.5 h</li> <li>Remarks: Based on data from similar materials</li> </ul>
lsobu	itane:	
Biode	gradability	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 100 %</li> <li>Exposure time: 385.5 h</li> <li>Remarks: Based on data from similar materials</li> </ul>
Hvdro	ocarbons. C9-C10. n	alkanes, isoalkanes, cyclics ,<2% aromatics:
	gradability	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 89 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> <li>Remarks: Based on data from similar materials</li> </ul>
Calci	um petroleum sulfor	ates:
	egradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 8.6 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> </ul>
Distil	lates (petroleum), h	drotreated heavy naphthenic:
	egradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 2 - 4 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>
Bioad	ccumulative potentia	I
<u>Com</u>	ponents:	

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:



# **CAVITY PROTECTION SPRAY**

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	ion coefficient: n- ol/water	:	0	d on data from similar materials
	<b>ne:</b> ion coefficient: n- iol/water	:	log Pow: 2.31	
Isobu	utane:			
	ion coefficient: n- ol/water	:	log Pow: 2.8	
Calci	um petroleum sulfor	nates:		
	ion coefficient: n- ol/water	:	log Pow: > 6.65	5
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			

#### **Disposal methods**

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty (including propellant)

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	UN 1950
Proper shipping name	:	AEROSOLS
Class	:	2.1
Packing group	:	Not assigned by regulation
Labels	:	2.1
IATA-DGR		
UN/ID No.	:	UN 1950
Proper shipping name		Aerosols, flammable
Class	:	2.1



### **CAVITY PROTECTION SPRAY**

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Packing group Labels Packing instruction (car aircraft) Packing instruction (pas ger aircraft)	•	
<b>IMDG-Code</b> UN number Proper shipping name	: UN 1950 : AEROSOLS	
Class Packing group Labels EmS Code Marine pollutant	: 2.1 : Not assigned by : 2.1 : F-D, S-U : no	y regulation

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

Not applicable for product as supplied.

#### **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 1950 Aerosols
Class Packing group Labels ERG Code Marine pollutant	:	2.1 Not assigned by regulation FLAMMABLE GAS 126 no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### SECTION 15. REGULATORY INFORMATION

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

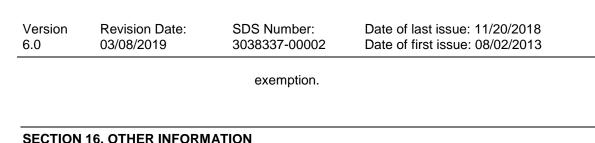
SARA 311/312 Hazards	:	Flammable (gases, aerosols, liquids, or solids) Gases under pressure Skin corrosion or irritation Respiratory or skin sensitization Aspiration hazard Specific target organ toxicity (single or repeated exposure)
		Specific target organ toxicity (single or repeated exposure)

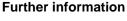




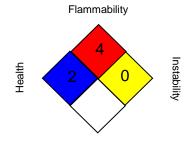
ersion 0	Revision Date: 03/08/2019		9S Number: 38337-00002	Date of last issue: 1 Date of first issue: 0	
 Sara	313	:	known CAS num		mical components with hreshold (De Minimis) Fitle III, Section 313.
	le organic compound content	S	40 CFR Part 59 sumer Products, VOC content: 60		n Standard For Con-
US St	ate Regulations				
Penns	sylvania Right To Kno	w			
	-	-C7,	n-alkanes, isoalka	anes, cyclics, <5% n-	64742-49-0
	hexane Hydrocarbons, C10 aromatics	0-C1	3, n-alkanes, isoa	lkanes, cyclics ,<2%	64742-48-9
	Propane				74-98-6
	Hydrocarbons, C9- aromatics	-C11	, n-alkanes, isoall	anes, cyclics ,<2%	64742-48-9
	Butane Isobutane				106-97-8 75-28-5
		-C10	, n-alkanes, isoall	anes, cyclics ,<2%	64742-49-0
	Polybutene	4.0			9003-29-6
	Fatty acids, C16-C Distillates (petroleu	um),	-	vy naphthenic	67701-03-5 64742-52-5
Califo	rnia List of Hazardou				
	hexane			anes, cyclics, <5% n-	64742-49-0
	aromatics			Ikanes, cyclics ,<2%	64742-48-9 64742-48-9
	aromatics	-011	, 11-aikai 165, 150air	anes, cyclics ,<2%	04742-40-9
	Butane				106-97-8
	Hydrocarbons, C9- aromatics Distillates (petroleu			anes, cyclics ,<2%	64742-49-0 64742-52-5
Califa					04742-32-3
Califo	rnia Permissible Expo			anes, cyclics, <5% n-	64742-49-0
	hexane		·	Ikanes, cyclics ,<2%	64742-48-9
	aromatics				
	Propane Hydrocarbons, C9- aromatics	-C11	, n-alkanes, isoall	anes, cyclics ,<2%	74-98-6 64742-48-9
	Butane				106-97-8
	Hydrocarbons, C9- aromatics			anes, cyclics ,<2%	64742-49-0
	Distillates (petroleu	um),	hydrotreated heav	/y naphthenic	64742-52-5
	ngredients of this proc	duct	-	-	
TSCA		:			t are either listed on the vith a TSCA Inventory







#### NFPA 704:



Special hazard.

#### HMIS® IV:

HEALTH	1	3
FLAMMABILITY		4
PHYSICAL HAZARD	3	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA		8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance: 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; HMIS - Hazardous Materials Identification System; 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



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50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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

Revision Date : 03/08/2019

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

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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