DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Vers 1.7	ion	Revision Date: 2016/05/13		S Number: 642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03			
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION							
	Product name		:	DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY				
	Produc	t code	:	0000000004038254				
	Manufa	acturer or supplier's c	letai	ls				
	Company		:	Dow Corning Sin Office	gapore Pte Ltd - Philippines Representative			
	Address		:		an Miquel Avenue Condominium nue corner Shaw Boulevard) Philippines			
	Teleph	one	:	+ (63 2) 635 279	8 or + (63 2) 635 2797			
	Emerge	ency telephone number	r:	+ (65) 6542 9595	5 (24 hours)			
	Telefax	(:	+ (63 2) 634 012	8			
	Decem	mandad use of the ol						

Recommended use of the chemical and restrictions on use

Recommended use : Co	construction materials and additives
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2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Precautionary statements :

[:] Prevention:

P271 Use only outdoors or in a well-ventilated area.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Chemical nature	:	Silicone
		Sealant

Hazardous components

DOW CORNING

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version 1.7	Revision Date: 2016/05/13	SDS Number: 884642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03		
Cherr	nical name		CAS-No.	Concentration	

Chemical name	CAS-No.	Concentration (% w/w)
Titanium dioxide	13463-67-7	>= 1 - < 5
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 1 - < 5
Quartz	14808-60-7	>= 0.1 - < 1
Methyltrimethoxysilane	1185-55-3	>= 0.1 - < 1

4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
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	:	None known.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
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 Metal oxides Silicon oxides Formaldehyde
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 so.

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

DOW CORNING

Vers 1.7	ion	Revision Date: 2016/05/13		9S Number: 4642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03
	Special for firefi	protective equipment ghters	:	Evacuate area. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.	
6. A	CCIDEN	ITAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- lipment and emer- procedures	:	Follow safe handl ment recommend	ing advice and personal protective equip- ations.
	Environmental precautions		:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.
		s and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version	Revision Date:	SDS Number:	Date of last issue: 2015/12/18
1.7	2016/05/13	884642-00008	Date of first issue: 2014/12/03

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

0					Desis	
Components		CAS-No.	Value type	Control parame-	Basis	
			(Form of	ters / Permissible		
			exposure)	concentration		
Titanium dioxide		13463-67-7	TWA	15 mg/m3	PH OEL	
			TWA	10 mg/m3 (Titanium dioxide)	ACGIH	
Distillates (petroleum), hy- drotreated middle		64742-46-7	TWA (Mist)	5 mg/m3	PH OEL	
Quartz		14808-60-7	TWA (Res- pirable dust)	250 mppcf / %SiO2+5	PH OEL	
				ntage of crystalline si		
				ed from airborne san		
				er methods have bee		
				s per cubic foot of air,	based on	
		impinger samp		ight-field techniques.		
			TWA (Res-	10 mg/m3 /	PH OEL	
	+		pirable dust)	%SiO2+2	PH OEL	
			TWA (Total dust)	30 mg/m3 / %SiO2		
			TWA (Res-	0.025 mg/m3	ACGIH	
			pirable frac- tion)	(Silica)		
Methyltrimethoxysilane		1185-55-3	TWA	7.5 ppm	DCC OEL	
Personal protective equipme	ent		place exposure	especially in confined concentrations.	aleas.	
Respiratory protection	:	Lleo rocpirato	w protoction unly	ess adequate local e	vbauet von	
Respiratory protection	•	tilation is prov	ided or exposure	e assessment demon ended exposure guid	strates that	
Filter type	:	Combined particulates and organic vapour type				
Hand protection Remarks	:			ntact use protective g d at the end of workc		
Eye protection	:	Wear the follo Safety glasses		rotective equipment:		
Skin and body protection	: Skin should be washed after contact.					
Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at						

DOW CORNING

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version	Revision Date:	SDS Number:	Date of last issue: 2015/12/18	
1.7	2016/05/13	884642-00008	Date of first issue: 2014/12/03	

elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	grey
Odour	:	not significant
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available
Relative density	:	1.46
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Vers 1.7	sion	Revision Date: 2016/05/13		S Number: 4642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03
Molecular weight		:	No data available)	
10.	STABIL	ITY AND REACTIVITY	,		
	Reactiv	vity	:	Not classified as	a reactivity hazard.
	Chemic	cal stability	:	Stable under nor	mal conditions.
Possibility of hazardous reac- tions		:	compounds. Can react with st Methyl alcohol is	emperatures may form highly hazardous rong oxidizing agents. formed upon contact with water or humid air. mposition products will be formed at elevated	
	Conditi	ons to avoid	:	None known.	
	Incomp	atible materials	:	Oxidizing agents	
	Hazardous decomposition p Thermal decomposition		orod :	ucts Formaldehyde	
11.	тохісо	LOGICAL INFORMAT	ION		
	Information on likely routes of exposure		:	Skin contact Ingestion Eye contact	
Acute toxicity Not classified based on availal <u>Components:</u>		ble i	nformation.		
	Titanium dioxide: Acute oral toxicity		:	LD50 (Rat): > 5,0	00 mg/kg

Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
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Distillates (petroleum), hydrotreated middle:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,000 mg/m3 Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg

6/16

DOW CORNING

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version 1.7	Revision Date: 2016/05/13	SDS Number 884642-0000	
		Assessme toxicity	ent: The substance or mixture has no acute dermal
Quar	tz:		
Acute	oral toxicity	: LD50 (Ra	t): > 5,000 mg/kg
Meth	yltrimethoxysilane:		
Acute	oral toxicity	Assessmo icity	t): 12.3 ml/kg ent: The substance or mixture has no acute oral tox- Information taken from reference works and the
Acute	inhalation toxicity	 LC50 (Rat): > 42.1 mg/l Exposure time: 6 h Test atmosphere: vapour Assessment: The substance or mixture has no acute i tion toxicity Remarks: Based on test data 	
Acute dermal toxicity		Assessme toxicity	bbit): > 9,500 mg/kg ent: The substance or mixture has no acute dermal Based on test data

Skin corrosion/irritation

Not classified based on available information.

Components:

Titanium dioxide:

Species: Rabbit Result: No skin irritation

Distillates (petroleum), hydrotreated middle:

Assessment: Repeated exposure may cause skin dryness or cracking.

Methyltrimethoxysilane:

Species: Rabbit Result: No skin irritation Remarks: Based on test data

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Titanium dioxide:

Species: Rabbit Result: No eye irritation

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

DOW CORNING

Version R 1.7 2

Revision Date: 2016/05/13

SDS Number: 884642-00008 Date of last issue: 2015/12/18 Date of first issue: 2014/12/03

Distillates (petroleum), hydrotreated middle:

Result: No eye irritation

Methyltrimethoxysilane:

Species: Rabbit Result: No eye irritation Remarks: Based on test data

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Titanium dioxide:

Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Result: negative

Distillates (petroleum), hydrotreated middle:

Test Type: Human repeat insult patch test (HRIPT) Exposure routes: Skin contact Result: negative

Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Species: Guinea pig Remarks: Based on test data

Germ cell mutagenicity

Not classified based on available information.

Components:

Titonium diaxida

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Result: negative

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version 1.7	Revision Date: 2016/05/13	SDS Number: 884642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03		
Dist	illates (petroleum), hyd	drotreated middle:			
Gen	otoxicity in vitro	: Test Type: In vitro sister chromatid exchange assay i malian cells Result: negative			
Met	hyltrimethoxysilane:				
Gen	otoxicity in vitro	Result: negat	acterial reverse mutation assay (AMES) ive sed on test data		
		Result: positiv	utagenicity (in vitro mammalian cytogenetic test) /e sed on test data		
		Result: positiv	nromosome aberration test in vitro /e sed on test data		
Gen	otoxicity in vivo	cytogenetic a Species: Mou	se oute: Ingestion		

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects. Assessment

Remarks: Based on test data

Carcinogenicity

Not classified based on available information.

Components:

Titanium dioxide:

Species: Rat Application Route: inhalation (dust/mist/fume) Exposure time: 24 Months Method: OECD Test Guideline 453 Result: positive Remarks: The mechanism or mode of action may not be relevant in humans. The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carcinogenicity - Assess- :	Limited evidence of carcinogenicity in inhalation studies with
ment	animals.

Quartz:

Species: Humans Application Route: inhalation (dust/mist/fume) Result: positive Remarks: IARC (International Agency for Research on Cancer) The substance is inextricably bound in the product and therefore does not contribute to a dust

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Vers 1.7	sion	Revision Date: 2016/05/13	SDS Number: 884642-00008		Date of last issue: 2015/12/18 Date of first issue: 2014/12/03
inhalation hazard.					
	Carcinogenicity - Assess- ment		:	Positive evidence from human epidemiological studies (inhation)	
Reproductive toxicity Not classified based on availal <u>Components:</u>		ble	information.		
	Methyl	trimethoxysilane:			
	-	on fertility	:		Ingestion ects on fertility
	Effects ment	on foetal develop-	:	reproduction/deve Species: Rat, mail Application Route	Ingestion ects on foetal development
	Reprod sessme	uctive toxicity - As- ent	:		lverse effects on sexual function and fertility, t, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Quartz:

Exposure routes: inhalation (dust/mist/fume) Target Organs: Lungs Assessment: Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

Methyltrimethoxysilane:

Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version Revision Date: 1.7 2016/05/13 SDS Number: 884642-00008

Date of last issue: 2015/12/18 Date of first issue: 2014/12/03

Repeated dose toxicity

Components:

Titanium dioxide:

Species: Rat NOAEL: 24,000 mg/kg Application Route: Ingestion Exposure time: 28 Days

Species: Rat NOAEL: 10 mg/m3 Application Route: inhalation (dust/mist/fume) Exposure time: 2 yr Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Quartz:

Species: Humans LOAEL: 0.053 mg/m3 Application Route: Inhalation Remarks: OECD SIDS The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Methyltrimethoxysilane:

Species: Rat Application Route: inhalation (vapour) Remarks: Based on test data

Species: Rat Application Route: Ingestion Remarks: Based on test data

Aspiration toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated middle:

:

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Titanium dioxide:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

DOW CORNING

/ersion I.7	Revision Date: 2016/05/13		9S Number: 4642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03	
			Exposure time: 9 Method: OECD	96 h Test Guideline 203	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): > 100 mg/l l8 h	
Toxici	Toxicity to algae		EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h		
Toxici	ty to bacteria	:	EC50: > 1,000 n Exposure time: 3 Method: OECD		
Dietill	lates (petroleum), hydr	otra	ated middle:		
	ity to fish	:		chus mykiss (rainbow trout)): > 87,556 mg/l 96 h	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): > 1,000 mg/l I8 h	
Toxici	ty to algae	:	: EC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l Exposure time: 72 h		
Toxici	ty to bacteria	:	: EC50: > 100 mg/l Exposure time: 3 h		
Toxici icity)	ty to fish (Chronic tox-	:	NOELR: > 1,000 Exposure time: 2	-	
	ty to daphnia and other ic invertebrates (Chron- city)	:	: NOELR: 5 mg/l Exposure time: 21 d		
Quart	z:				
Ecoto	oxicology Assessment				
	aquatic toxicity	:	No toxicity at the	limit of solubility	
Chron	ic aquatic toxicity	:	No toxicity at the limit of solubility		
Methy	yltrimethoxysilane:				
Toxici	ty to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia sp.): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Toxici	ity to algae	:	ErC50 (Pseudo	kirchneriella subcapitata (green algae)): > 3.6	

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

DOW CORNING

Version 1.7	Revision Date: 2016/05/13		DS Number: 34642-00008	Date of last issue: 2015/12/18 Date of first issue: 2014/12/03
				2 h est Guideline 201 icity at the limit of solubility
			mg/l Exposure time: 7 Method: OECD T	rchneriella subcapitata (green algae)): > 3.6 2 h Fest Guideline 201 icity at the limit of solubility
Toxic	Toxicity to bacteria		EC50: > 100 mg/l Method: OECD Test Guideline 209	
Pers	istence and degradabi	lity		
Com	ponents:			
Disti	llates (petroleum), hyd	lrotr	eated middle:	
Biode	egradability	:	Result: Inherently biodegradable.	
Meth	yltrimethoxysilane:			
	Stability in water		Degradation half	life: 2.2 h pH: 7
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	Methyltrimethoxysilane: Partition coefficient: n- octanol/water		log Pow: -2.36	
	i lity in soil ata available			
	r adverse effects ata available			
13. DISPO	OSAL CONSIDERATIO	NS		
5.				
-	osal methods te from residues	:	Dispose of in acc	ordance with local regulations.
Cont	aminated packaging	:	Empty containers dling site for recy	s should be taken to an approved waste han-

14. TRANSPORT INFORMATION

International Regulations

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version	Revision Date:	SDS Number:	Date of last issue: 2015/12/18
1.7	2016/05/13	884642-00008	Date of first issue: 2014/12/03

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.

15. REGULATORY INFORMATION

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

Priority Chemical List (PCL)	•	Not applicable
Chemical Control Order (CCO)	:	Not applicable

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

NZIOC	:	All ingredients listed or exempt.
REACH	:	All ingredients (pre-)registered or exempt.
TSCA	:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS	:	All ingredients listed or exempt.
IECSC	:	All ingredients listed or exempt.
ENCS/ISHL	:	All components are listed on ENCS/ISHL or exempted from inventory listing.
KECI	:	All ingredients listed, exempt or notified.
PICCS	:	All ingredients listed or exempt.
DSL	:	This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Corning Regulatory Compliance.
TCSI	:	All ingredients listed or exempt.

16. OTHER INFORMATION

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
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DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

Version	Revision Date: 2016/05/13	SDS Number:	Date of last issue: 2015/12/18	
1.7		884642-00008	Date of first issue: 2014/12/03	
com	pile the Safety Data	eChem Portal	search results and European Chemicals Agen-	
She	et	cy, http://echa	a.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	e format	: yyyy/mm/dd		

Full text of other abbreviations

ACGIH DCC OEL PH OEL	:	USA. ACGIH Threshold Limit Values (TLV) Dow Corning Guide Philippines. Threshold Limit Values For Airborne Contami-
ACGIH / TWA DCC OEL / TWA PH OEL / TWA	:	nants 8-hour, time-weighted average Time weighted average Threshold limit for airborne contaminants

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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; 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

DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT GRY

DOW CORNING

Version	Revision Date:	SDS Number:	Date of last issue: 2015/12/18
1.7	2016/05/13	884642-00008	Date of first issue: 2014/12/03

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.

PH / EN