

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

SECTION 1. IDENTIFICATION

Product name : DOWSIL™ 730 FS Solvent Resistant Sealant

Product code : 06023781

Manufacturer or supplier's details

Company Identification : THE DOW CHEMICAL COMPANY
2030 WILLARD H DOW CENTER
MIDLAND MI 48674-0000
UNITED STATES

Telephone : 800-258-2436

24-Hour Emergency Contact : Chemtrec +1 800-424-9300

Local Emergency Number : 800-424-9300

E-mail address : SDSQuestion@dow.com

Recommended use of the chemical and restrictions on use

Recommended use : Corrosion inhibitors
Adhesive, binding agents
Coatings

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P261 In case of fire: Avoid breathing fume.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Fluorosilicone elastomer

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Hexamethyldisilazane reaction with Silica	68909-20-6	$\geq 7 - \leq 8$
Titanium dioxide	13463-67-7	$\geq 6 - \leq 7$
Vinyltriacetoxysilane	4130-08-9	$\geq 1.6 - \leq 1.8$
Trifluoropropylmethyl cyclotrisiloxane	2374-14-3	0.0305

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : 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.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye irritation.

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
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
Very toxic vapors are evolved.

Hazardous combustion products : Carbon oxides
Silicon oxides
Fluorine compounds
Formaldehyde
Nitrogen oxides (NO_x)
Metal oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
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.
Clean up remaining materials from spill with suitable absorbent.
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 which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 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 : Do not get on skin or clothing.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethyldisilazane reaction with Silica	68909-20-6	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
Titanium dioxide	13463-67-7	TWA (total	15 mg/m ³	OSHA Z-1

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
 Date of first issue: 03/20/2015

		dust)		
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
Trifluoropropylmethyl cyclotrisiloxane	2374-14-3	TWA	5 ppb	DCC OEL
Further information: Skin				

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Vinyltriacetoxysilane	4130-08-9

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Hexamethyldisilazane reaction with Silica

Titanium dioxide

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Acetic acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		ST	15 ppm 37 mg/m ³	NIOSH REL
		TWA	10 ppm 25 mg/m ³	NIOSH REL
		TWA	10 ppm 25 mg/m ³	OSHA Z-1

Engineering measures : Processing may form hazardous compounds (see section 10).
 Ensure adequate ventilation, especially in confined areas.
 Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Chemical-resistant gloves

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- 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 elevated temperature or aerosol/spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Color : white
- Odor : Acetic acid
- Odor Threshold : No data available
- pH : Not applicable
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : Not applicable
- Flash point : 95 °C
Method: Seta closed cup
- Evaporation rate : Not applicable
- Flammability (solid, gas) : Not classified as a flammability hazard
- Self-ignition : The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not applicable

Relative vapor density : No data available

Relative density : 1.41

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition 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.

Molecular weight : No data available

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapors may form explosive mixture with air.
Use at elevated temperatures may form highly hazardous compounds.
Can react with strong oxidizing agents.
Adequate ventilation is required.
See OSHA formaldehyde standard, 29 CFR 1910.1048
When heated to temperatures above 180 °C (356 °F) in the presence of air, trace quantities of formaldehyde may be released.
Hazardous decomposition products will be formed upon contact with water or humid air.
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Acute inhalation toxicity : LC50 (Rat): > 13.44 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: On basis of test data.

Skin corrosion/irritation

Causes skin irritation.

Ingredients:

Hexamethyldisilazane reaction with Silica:

Assessment: Repeated exposure may cause skin dryness or cracking.

Titanium dioxide:

Species: Rabbit
Result: No skin irritation

Vinyltriacetoxysilane:

Result: Corrosive after 3 minutes to 1 hour of exposure
Remarks: Based on data from similar materials

Trifluoropropylmethyl cyclotrisiloxane:

Species: Rabbit
Result: No skin irritation
Remarks: On basis of test data.

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:

Hexamethyldisilazane reaction with Silica:

Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

Titanium dioxide:

Species: Rabbit
Result: No eye irritation

Vinyltriacetoxysilane:

Result: Irreversible effects on the eye
Remarks: Based on data from similar materials

Trifluoropropylmethyl cyclotrisiloxane:

Species: Rabbit
Result: No eye irritation
Remarks: On basis of test data.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Ingredients:

Titanium dioxide:

|| Test Type: Local lymph node assay (LLNA)
|| Routes of exposure: Skin contact
|| Species: Mouse
|| Result: negative

Trifluoropropylmethyl cyclotrisiloxane:

|| Assessment: Does not cause skin sensitization.

|| Test Type: Buehler Test
|| Species: Guinea pig
|| Result: negative
|| Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Hexamethyldisilazane reaction with Silica:

|| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
|| Result: negative
|| Remarks: Based on data from similar materials

Titanium dioxide:

|| 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

Vinyltriacetoxysilane:

|| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
|| Result: negative
|| Remarks: On basis of test data.

Trifluoropropylmethyl cyclotrisiloxane:

|| Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
|| Result: negative
|| Remarks: On basis of test data.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Symptoms: Effects on fertility.
Remarks: On basis of test data.

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Ingredients:

Trifluoropropylmethyl cyclotrisiloxane:

Routes of exposure: Ingestion
Target Organs: Heart, Musculo-skeletal system
Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Routes of exposure: Skin contact
Target Organs: Liver
Assessment: Shown to produce significant health effects in animals at concentrations of >20 to 200 mg/kg bw.

Repeated dose toxicity

Ingredients:

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 y
Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Trifluoropropylmethyl cyclotrisiloxane:

Species: Rat
Application Route: Ingestion
Target Organs: Heart, Musculo-skeletal system
Remarks: On basis of test data.

Species: Rat
Application Route: Skin contact
Target Organs: Liver
Remarks: On basis of test data.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Titanium dioxide:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50: > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Vinyltriacetoxysilane:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Remarks: On basis of test data.
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l
Exposure time: 72 h
Method: EPA-679/4-73-001
Remarks: On basis of test data.

Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Ingredients:

Trifluoropropylmethyl cyclotrisiloxane:

- Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: CO2 Evolution Test

Bioaccumulative potential

No data available

Mobility in soil

No data available

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA) : This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

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.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic acid	64-19-7	5000	*
Acetic anhydride	108-24-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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 : Skin corrosion or irritation

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015



Serious eye damage or eye irritation

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Trifluoropropylmethyl siloxane, hydroxy-terminated	68607-77-2
Hexamethyldisilazane reaction with Silica	68909-20-6
Titanium dioxide	13463-67-7
Acetic acid	64-19-7
Acetic anhydride	108-24-7

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California Permissible Exposure Limits for Chemical Contaminants

Titanium dioxide	13463-67-7
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The ingredients of this product are reported in the following inventories:

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

REACH : For purchases from Dow Chemical EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Chemical legal entities with the intention to export into EEA please contact your DC representative/local office.

KECI : One or more ingredients are not listed or exempt.

TCSI : All ingredients listed or exempt.

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant

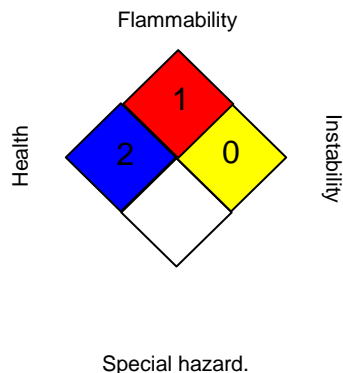


Version 8.0 Revision Date: 10/20/2017 SDS Number: 970187-00013 Date of last issue: 03/22/2017
Date of first issue: 03/20/2015

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

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 : USA. ACGIH Threshold Limit Values (TLV)
- DCC OEL : Dow Chemical Guide
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- DCC OEL / TWA : Time weighted average
- 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
- OSHA Z-3 / 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 - Ko-

SAFETY DATA SHEET

DOWSIL™ 730 FS Solvent Resistant Sealant



Version	Revision Date:	SDS Number:	Date of last issue: 03/22/2017
8.0	10/20/2017	970187-00013	Date of first issue: 03/20/2015

rea 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; 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 Agency, <http://echa.europa.eu/>

Revision Date : 10/20/2017

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.

US / Z8