

Issue date: 22-Sep-2014

Date prepared 09-Jun-2016

Version 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product name: EPDM sealant

Product identifier NO.652V Gray

Product Code P020-00043416-0028

Supplier Address Nitto Denko Corporation Toyohashi Plant
18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan
TEL.+81-532-41-7242, FAX. +81-532-41-7284

Department responsible Quality Management Dept. Administration Div

Emergency telephone number +81-532-41-1121(TOYOHASHI PLANT)

Recommended Use Sealant

2. Hazards Identification

Classification of the substance or mixture Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

3. Composition/information on Ingredients

Single Substance or Mixture	Article	Chemical name	CAS No	Concentration or concentration ranges
		Polyisobutylene	-	40-60
		Silicon dioxide	14808-60-7	10-30
		EPDM	-	10-30
		Calcium carbonate	471-34-1	3-8
		Titanium dioxide	13463-67-7	1-3

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

If inhaled Will not occur

Skin In the case of skin irritation or allergic reactions see a physician
Peel slowly, then rinse in water

Eyes Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary

Ingestion Immediately induce vomiting and then consult a doctor

Most important symptoms/effects, acute and delayed: No information available

Self-protection of the first aider No information available

Note to physicians No information available

5. Fire-fighting measures

Fire extinguishing agent Water
ABC-powder
Extinguishing powder
Carbon dioxide (CO2)

Prohibited media No information available

Special exposure hazards in a fire No information available

Specific extinguishing methods No information available

Advice for fire-fighters Due to poisonous gas (chlorine gas and so on) may be occurred, if needed, use Gas mask and Goggles

6. Accidental release measures

Personal Precautions: Will not occur. Not specified

Protective equipment and emergency procedures Will not occur. Not specified

Environmental precautions: Will not occur. Not specified

Methods and material for containment and cleaning up Will not occur. Not specified

7. Handling and Storage

Treatment

<u>Technical measures:</u>	None in particular
<u>Local and general exhaust ventilation</u>	Not required for use in normal temperature Provide adequate ventilation when performing high-temperature processing
<u>Remarks</u>	Use caution and protective gloves to avoid cuts with edges of tape liners
<u>Precautions for safe handling</u>	None in particular

Storage

<u>Technical measures:</u>	None in particular
<u>Storage Conditions</u>	Store at room at room temperature and normal humidity away from direct sunlight
<u>Storage conditions to avoid</u>	Avoid high temperature
<u>Incompatible materials:</u>	No data available
<u>Conditions for safe storage, including any incompatibilities</u>	Shipping package

8. Exposure Controls/Personal Protection

<u>Control parameters</u>	Unset
<u>Permissible concentration</u>	Unset
<u>Appropriate engineering controls</u>	Not required

Personal protective equipment [PPE]

<u>Respiratory Protection:</u>	Not required
<u>Hand Protection</u>	Not required
<u>Eye protection</u>	Not required
<u>Skin protection</u>	Not required

<u>General Hygiene Considerations</u>	None under normal use conditions
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9. Physical and Chemical Properties

<u>Physical State:</u>	Roll type Solid
<u>paint</u>	Gray
<u>Odor</u>	None in particular
<u>pH</u>	No data available
<u>Melting point / Freezing point</u>	No data available
<u>boiling point</u>	No data available
<u>Boiling point / boiling range</u>	No data available
<u>Flash Point:</u>	No data available
<u>Autoignition temperature:</u>	No data available
<u>Upper</u>	No data available
<u>Lower</u>	No data available
<u>vapor pressure</u>	No data available
<u>Specific gravity</u>	approx 1.4
<u>Solubility</u>	Insoluble in water
<u>Partition coefficient:</u>	No data available
<u>decomposition temperature</u>	No data available
<u>Other Data</u>	Flammability:

10. Stability and Reactivity

<u>Reactivity:</u>	Stable under normal conditions of use and storage
<u>Possibility of Hazardous Reactions</u>	No data available
<u>Conditions to avoid</u>	No information available
<u>Incompatible materials:</u>	No data available
<u>Hazardous decomposition products:</u>	No information available

11. Toxicological Information

<u>Acute Toxicity</u>	No information available
<u>Skin corrosion/irritation</u>	No information available
<u>Serious eye damage/eye irritation</u>	No information available
<u>Respiratory sensitization</u>	No information available
<u>Germ cell mutagenicity</u>	No information available
<u>Carcinogenicity</u>	No information available
<u>Reproductive Toxicity</u>	No information available
<u>Specification target internal organs/systemic toxicity (single</u>	No information available

exposure)
Specification target internal No information available
organs/systemic toxicity (repeat
exposure)
Aspiration hazard No information available

12. Ecological Information

Persistence and degradability No information available
Bioaccumulation No information available
Mobility No information available
Ozone depletion potential (ODP): No information available

13. Disposal Considerations

Waste treatment methods Disposal should be in accordance with applicable regional, national and local laws and regulations
When burning it, use an incinerator which satisfies its technical guidelines (the residence time is 2 seconds or more at a temperature of 800 °C centigrade or more).
Contact an authorized industrial waste treatment company for off-site disposal

Contaminated packaging Contact a recycling manufacture

14. Transport Information

National regulations
Transport hazard class Not Applicable
UN/ID-Nr Not Applicable

Japanese regulation Not Applicable

Special precautions in connection with transport or conveyance Do not store in long term under high temperature or leave outdoors

15. Regulatory information

Local regulation Japanese regulation Fire Service Act : Designated flammable material (Synthetic resins : Other)

Foreign regulation Contact NITTO for more information

<u>Chemical name</u>	<u>California Proposition 65</u>
Silicon dioxide	Carcinogen

REACH 7 Article 33 Article SVHC notification (> 0.1wt%) Not Applicable

16. Other information

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other information: The regulatory information presented here should not necessarily be considered as all-inclusive. Other local and international regulations may also apply

Key literature references and sources for data JIS Z 7252 : 2009 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"
JIS Z7253 : 2012 Safety data sheet for chemical products -Content and order of sections

Disclaimer
Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards
Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases

End of Material Safety Data Sheet