

# **Material SAFETY DATA SHEET Griptop Cove Pack Seal - Hardener**

# 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Griptop Cove Pack Seal - Hardener

Description: Hardener component of three components flow applied polyurethane floor

topping

Manufacturer: Ayla for Building Materials Industry & Trade

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# 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Mixture of polyisocyanate based on diphenylmethane diisocyanate.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Diphenylmethane-diisocyanate, isomers & homologues	Xn	R20, 36/37/38, 40, R42/43, 48/20	9016-87-9	60 – 75
Diphenylmethane-2,4'-diisocyanate	Xn	R20, 36/37/38, 40, 42/43, 48/20	5873-54-1	10 - 20
Diphenylmethane-4,4'-diisocyanate	Xn	R20, 36/37/38, 40, 42/43, 48/20	101-68-8	5 – 15

Refer to Section 8 for Occupational Exposure Limits.

# 3: HAZARDS IDENTIFICATION

Hazard Information: Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure

through inhalation.

Classification: Xn. R20, 36/37/38, 42/43, 40, 48/20.



### 4: FIRST AID MEASURES

Eyes: Hold the eyes open and rinse with preferably lukewarm water for a

sufficiently long period of time (at least 10 minutes). Contact an

ophthalmologist.

Skin: In the event of contact with the skin, preferably wash with a cleanser

based on polyethylene glycol or with plenty of warm water and soap.

Soiled, soaked clothing and shoes must be immediately removed, decontaminated and disposed of. Consult a doctor in the event of a skin

reaction.

Inhalation: Take the person into the fresh air and keep him warm, let him rest; if

there is difficulty in breathing, medical advice is required.

Ingestion: DO NOT induce the patient to vomit, medical advice is required.

# 5: FIRE FIGHTING MEASURES

Flash Point: 220 ℃.

Special Exposure Hazards: Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen,

isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes. Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be

cooled with water and, if possible, removed from the danger area.

Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), Foam, extinguishing powder, in cases of larger

fires, water spray should be used. Never use high volume water jets.

Personal Protective Equipment: During fire-fighting respirator with independent air-supply and airtight

garment is required. Do not allow contaminated extinguishing water to

enter the soil, ground-water or surface waters.

# **6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Put on protective equipment. Ensure adequate ventilation/exhaust

extraction. Keep unauthorized persons away.

Environmental Precautions: Do not allow to escape into waterways, wastewater or soil.

Decontamination Procedures: Remove mechanically; cover the remainder with wet, absorbent material

(e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of  $CO_2$ !). Keep damp in a safe ventilated area for several days.

Spill area can be decontaminated with the following recommended

decontamination solution:

Decontamination solution 1: 8-10% sodium carbonate and 2% of liquid

soap in water.

*Decontamination solution 2*: Liquid/yellow soap (potassium soap with ~15% anionic tenside): 20ml; Water:700ml; Polyethylenglycol (PEG 400):

350ml.



#### **HANDLING AND STORAGE**

Handling: Provide sufficient air exchange and/or exhaust in work rooms. Exhaust

> ventilation necessary if product is sprayed. The threshold limit values noted in Chapter 8 must be monitored. In all areas where isocyanate aerosols and/or vapor concentrations are produced in elevated concentrations, exhaust ventilation must be provided in such a way that the workplace exposure limits (WEL) is not exceeded. The air should be drawn away from the personnel handling the product. The precautions required in the handling of isocyanates must be taken. Avoid contact with skin and eyes and the inhalation of vapor. Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Keep working clothes separately. Take off

all contaminated clothing immediately.

Storage: Keep container tightly closed in a dry and well-ventilated place. Further

information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

#### 8: **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Ingestion: Prevent eating, drinking or smoking in the area of product use.

**Eye Contact:** Safety glasses or chemical goggles.

Skin Contact: Impervious gloves (e.g. Polychloroprene - CR: thickness ≥ 0.5 mm;

> breakthrough time ≥ 480 min. OR Nitrile rubber - NBR: thickness ≥ 0.35 mm; breakthrough time ≥ 480 min. OR Butyl rubber - IIR: thickness ≥

0.5 mm; breakthrough time ≥ 480 min.). And protective clothing.

Respiratory Protection: Respiratory protection required in insufficiently ventilated working areas

and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the

product.

**Engineering Controls:** Use only in well ventilated areas. Local exhaust ventilation is

recommended.

**Exposure Guidelines:** 

Commonant	CAS number	TLV		
Component		Value	Ceiling limit	
Diphenylmethane-4,4'-diisocyanate	101-68-8	0.05 mg/m <sup>3</sup>	2	
Phenyl isocyanate	103-71-9	0.05 mg/m <sup>3</sup>	1	
		Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL)		
		Short term	Long term	
Diphenylmethane-2,4'-diisocyanate	5873-54-1	0.1 mg/m³ air inhalation	0.05 mg/m³ air inhalation	
diphenylmethane-4,4'-diisocyanate	101-68-8	0.1 mg/m³ air inhalation	0.05 mg/m³ air inhalation	

**Issue No.:** 01 Rev. No.: 00 Griptop Cove Pack Seal - Hardener Page 3 of 6



# 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Viscous liquid

Colour: Brown
Odour: Musty
Flash Point (closed cup) (°C): 220
Boiling Point (°C): > 300

Relative Density (@25°C): 1.17 – 1.23 Water Solubility: Insoluble

# 10: STABILITY AND REACTIVITY

Stability: Polymerises at about 200°C with evolution of CO<sub>2</sub>.

-42

Conditions to Avoid: None known.

Chemical Incompatibility: Exothermic reaction with amines and alcohols; reacts with water forming

CO<sub>2</sub>; in closed containers, risk of bursting owing to increase of pressure.

Hazardous Decomposition Products: No hazardous decomposition products when used as directed.

# 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components. Expected oral LD50, rat > 2000 mg/kg.

#### **Health Effects**

Freezing Point (°C):

On Eyes: Irritant.
On Skin: Irritant.
By Inhalation: Harmful.
By Ingestion: Irritant.

# 12: ECOLOGICAL INFORMATION

Environmental Assessment: When used and disposed off as intended, no adverse environmental

effects are foreseen.

Mobility: Not applicable.

Degradability: Not applicable.

Bioaccumulation: Not applicable.

Acute Fish Toxicity: Not applicable.



# 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.

Used/ Contaminated Product: As for unused product.

Packaging: May be steam cleaned and recycled.

# 14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

# 15: REGULATORY INFORMATION

Hazard Label Data: Xn

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Harmful

Contains: Diphenylmethane-diisocyanate, isomers and homologues.

Diphenylmethane-2,4'-diisocyanate. Diphenylmethane-4,4'-diisocyanate.

Risk Phrases:

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact.

R40 Limited evidence of a carcinogenic effect.

R48/20 Harmful: danger of serious damage to health by

prolonged exposure through inhalation.

Safety Phrases:

S23 Do not breathe vapour.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S37 Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible).



# **16: OTHER INFORMATION**

Issue Date: 30.08.2020 Revised Date:

Disclaimer: The information contained herein is derived from the best available sources and is

believed to be accurate. However, no guarantee is expressed or implied regarding

the accuracy of the data given in the use of this product.