



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS No. 1625A

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: **Task® 9 EU Part A**

1.2 Relevant identified uses of the substance or mixture and uses advised against

General Use: Polyurethane Elastomer

Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:

Company: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062

Telephone: Phone (610) 252-5800

E-mail address of person responsible for the SDS: Visit our website at www.smooth-on.com or email sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008)

H315 Skin corrosion/irritation – Category 2

H317 Skin sensitization – Category 1

H319 Eye irritation – Category 2A

H332 Acute toxicity, inhalation – Category 4

H334 Respiratory Sensitization – Category 1

H335 Specific target organ toxicity – single exposure – Category 3 (respiratory)

H351 Carcinogenicity – Category 2

H373 Specific Target Organ Toxicity, repeated exposure Category 2 (respiratory)

2.2 GHS Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008)



Pictogram(s):

Signal word: Danger

Health Hazards:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation



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- H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

General Precautions:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention Precautions:

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response Precautions:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage Precautions:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal Precautions:

- P501 Dispose of contents/container according to local, state and federal laws.

Additional labelling requirements:

- EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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Section 3 - Composition / Information on Ingredients

3.1 Substances / Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Chemical name	CAS No. EC No. Index number	Classification	Concentration (% w/w)
4,4'-Methylenediphenyl diisocyanate (MDI)	101-68-8 202-966-0 615-005-00-9	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Acute Tox. 4, STOT SE 3, Resp. Sens. 1, Carc. 2, STOT RE 2; H315, H317, H319, H332, H334, H351, H373	50 – 80
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6 500-040-3	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Acute Tox. 4, STOT SE 3, Resp. Sens. 1, Carc. 2, STOT RE 2; H315, H317, H319, H332, H334, H351, H373	15 – 40

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

4.1 Description of first aid measures

General Advice: Soiled, soaked clothing and shoes must be immediately removed, decontaminated and disposed of.

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: 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. Consult a doctor in the event of a skin reaction. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Following severe exposure, the patient should be kept under medical review for at least 48 hours.

4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.



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Section 5 - Fire-Fighting Measures

- 5.1 Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam. Water spray may be used if no other available and then in copious quantities. Prevent washings from entering water courses, keep fire exposed containers cool by spraying with water.
- 5.2 Special hazards arising from the substance or mixture:** Reaction between water and hot isocyanate may be vigorous. Combustion products may include: carbon oxides (CO, CO₂) nitrogen oxides (NO, NO₂ etc.) hydrocarbons, isocyanate vapors and hydrogen cyanide.
- 5.3 Advice for firefighters:** 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. Due to reaction with water producing CO₂-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

Section 6 - Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapours. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (section 8). Keep unauthorized persons away.
- 6.2 Environmental precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.
- 6.3 Methods and material for containment and cleaning up:** If the product is in its solid form: Spilled MDI flakes should be picked up carefully. The area should be vacuum cleaned to remove remaining dust particles completely. If the product is in its liquid form: Absorb spillages onto sand, earth or any suitable adsorbent material. Leave to react for at least 30 minutes. Do not absorb onto sawdust or other combustible materials. Shovel into open-top drums for further decontamination. Wash the spillage area with water. Test atmosphere for MDI vapour. Neutralise small spillages with decontaminant. Remove and dispose of residues.
- 6.4 Reference to other sections:** See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.



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Section 7 - Handling and Storage

- 7.1 Precautions for safe handling:** Provide sufficient air exchange and/or exhaust in work rooms. In all workplaces or parts of the plant where high concentrations of isocyanate aerosols and/or vapors may be generated (e.g. during pressure release, mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided in order to prevent occupational exposure limits from being exceeded. The air should be drawn away from the personnel handling the product. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Atmospheric concentrations should be minimized and kept as low as reasonably practicable below the occupational exposure limit.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Suitable containers: steel, stainless steel. Unsuitable containers: copper., copper alloy and galvanized surfaces.
- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters:

Exposure limits are listed below if they exist.

Component	Regulation	Type of Listing	Value / Notation
4,4'-Methylenediphenyl diisocyanate (MDI)	ACGIH	TWA	0.005 ppm
	GB EH40	TWA	SEN
	GB EH40	STEL	SEN
	GB EH40	TWA	0.02 mg/m ³ , as -NCO
	GB EH40	STEL	0.07 mg/m ³ , as -NCO

Derived No Effect Level (DNEL) - Workers

Acute – systemic effects		Acute – local effects		Long Term – systemic effects		Long Term – local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
50 mg/kg bw/day	0.1 mg/m ³	28.7 mg/cm ²	0.1 mg/m ³	n.a.	0.05 mg/m ³	n.a.	0.05 mg/m ³

Consumers

Acute - systemic effects			Acute-local effects		Long-term-systemic effects			Long-term-local effects	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
25mg/kg bw/day	0.05 mg/m ³	20 mg/kg bw/day	17.2 mg/cm ²	0.05 mg/m ³	n.a.	0.025 mg/m ³	n.a.	n.a.	0.025 mg/m ³



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Predicted No Effect Concentration

Compartment	PNEC	Remarks
Fresh water	1 mg/l	
Marine water	0.1 mg/l	
Soil	1 mg/kg d.w.	
STP	1 mg/l	
Intermittent releases	10 mg/l	

8.2 Exposure controls:

Engineering controls: Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. The odor and irritancy of this material are inadequate to warn of excessive exposure.

Respiratory Protection: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow European Standards EN 141, 143 and 371; wear an European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Hand Protection: Use chemical resistant gloves classified under Standard EN374. Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Form:	Liquid	Appearance:	Amber liquid
Odor:	Musty	Vapor Pressure:	None (Polymeric Resin)
Odor Threshold:	No data	Vapor Density (Air=1):	>1
Viscosity:	600 centipoise	Specific Gravity (H₂O=1, at 4 °C):	1.2
pH:	No data	Solubility:	Insoluble
Melting / Freezing Point:	37°F	Partition coefficient (n-octanol/water):	No data
Low / High Boiling Point:	>390°F	Auto-ignition temperature:	No data
Flash Point:	>390°F	Decomposition temperature:	No data



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Flammability:	f.p. at or above 200 °F	Evaporation Rate:	No data
Lower Explosion Limit:	No data	% Volatile:	0% (v/v), 0% (w/w)
Upper Explosion Limit:	No data	Relative Density:	No data

Section 10 - Stability and Reactivity

- 10.1 Reactivity:** Products based on diisocyanates like MDI react with many materials to release heat. The reaction rate increases with temperature as well as with increased contact; these reactions can become violent. Contact is increased by stirring or if the other material acts as a solvent. Products based on diisocyanates such as MDI are not soluble in water and will sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea.
- 10.2 Chemical stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization cannot occur.
- 10.4 Conditions to avoid:** Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid. Avoid moisture. Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction.
- 10.5 Incompatible materials:** strong bases and acids
- 10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

- 11.1 Information on toxicological effects:** Information extrapolated based on individual component data. Assessment of irritating effects: irritating to eyes, respiratory system and skin. Skin contact may result in dermatitis, either irritative or allergic.
- Skin Corrosion/Irritation:** Draize test (rabbit): irritating (based on MDI)
- Serious Eye Damage/Irritation:** Draize test (rabbit): irritating (based on MDI)
- Respiratory/Skin Sensitization:**
Buehler test (guinea pig): sensitizing
Mouse Local Lymph Node Assay (LLNA): sensitizing, can cause skin sensitization.
Studies in animals suggest that dermal exposure may lead to pulmonary sensitization. However, the relevance of this result for humans is unclear.
- Germ Cell Mutagenicity:** no data
- Carcinogenicity:** Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/Polymeric MDI (6 mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.



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Reproductive Toxicity: Repeated inhalation uptake of the substance did not cause damage to the reproductive organs. Assessment of teratogenicity showed that the substance did not cause malformations in animal studies, however toxicity to development was observed at high doses that were toxic to the parental animals.

Specific Target Organ Toxicity – Single Exposure:

Contains component(s) which are classified as specific target organ toxicant, single exposure, category 3.

Specific Target Organ Toxicity – Repeated Exposure: Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.

Aspiration Hazard: Based on physical properties, not likely to be an aspiration hazard.

Acute Toxicity:

LD50 oral (rat): > 2,000 mg/kg

LC50 inhalation (rat), 1 hour, dust/mist: > 2.24 mg/l

LD50 dermal (rabbit): > 9,400 mg/kg

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

12.1 Toxicity:

Acute toxicity to fish

The measured ecotoxicity is that of the hydrolyzed product, generally under conditions maximizing production of soluble species. Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

Based on information for a similar material:

LC50, Danio rerio (zebra fish), static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

Acute toxicity to algae/aquatic plants

Based on information for a similar material:

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1,640 mg/l, OECD Test Guideline 201 or Equivalent

Toxicity to bacteria

Based on information for a similar material:

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l



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Toxicity to soil-dwelling organisms

EC50, Eisenia fetida (earthworms), Based on information for a similar material:, 14 d, > 1,000 mg/kg

Toxicity to terrestrial plants

EC50, Avena sativa (oats), Growth inhibition, 1,000 mg/l EC50, Lactuca sativa (lettuce), Growth inhibition, 1,000 mg/l

- 12.2 Persistence and Degradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates. 10-day Window: Not applicable
- 12.3 Bioaccumulative Potential:**
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d
- 12.4 Mobility in Soil:** In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.
- 12.5 Results of PBT and vPvB assessment:** This substance is not considered to be persistent, bioaccumulating and toxic (PBT)
- 12.6 Other Adverse Effects:** This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

Section 13 - Disposal Considerations

- 13.1 Waste treatment methods:** This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water. Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method for disposal. Small quantities of waste may be pretreated for example with polyol, to neutralise prior to disposal. Empty drums should be decontaminated (see Section 6) and either punctured and scrapped or given to an approved drum reconditioner.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

Section 14 - Transport Information

Not regulated by ADR/RID, IATA/ICAO or IMO/IMDG

- 14.1 UN number:** none
14.2 UN proper shipping name: none
14.3 Transport hazard class(es): not applicable
14.4 Packing group: not applicable
14.5 Environmental hazards: none known
14.6 Special precautions for user: none known



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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

Section 15 - Regulatory Information

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, are exempt from registration or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Restrictions on the manufacture, placing on the market and use:

The following substance/s contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product have to comply with the restrictions placed upon it by the aforementioned provision.

Name: 4,4'-Methylenediphenyl diisocyanate (MDI)

CAS-No.: 101-68-8

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

Date Prepared: October 6, 2017

Revision: 1

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances



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ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number; PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) and European Union Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH).



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Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: **Task® 9 EU Part B**

1.2 Relevant identified uses of the substance or mixture and uses advised against

General Use: Polyurethane Elastomer

Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:

Company: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062
Telephone: Phone (610) 252-5800

E-mail address of person responsible for the SDS: Visit our website at www.smooth-on.com or email sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008)

H300 Acute Toxicity, oral - Category 2

H310 Acute Toxicity, dermal – Category 1

H330 Acute Toxicity, inhalation – Category 2

H373 Specific Target Organ Toxicity, repeated exposure – Category 2

H400 Acute Aquatic Toxicity – Category 1

H410 Chronic Aquatic Toxicity – Category 1

2.2 GHS Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008)



Pictogram(s):

Signal word: Danger

Health Hazards:

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H373 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

General Precautions:

P101 If medical advice is needed, have product container or label at hand.



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P102 Keep out of reach of children.

P103 Read label before use.

Prevention Precautions:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Take off contaminated clothing.

P264 Wash with soap and water thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

Response Precautions:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P361 Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage Precautions:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal Precautions:

P501 Dispose of contents/container according to local, state and federal laws.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3 - Composition / Information on Ingredients

3.1 Substances/Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Chemical name	CAS-No. EC-No. INDEX No.	Classification	Concentration (% w/w)
Phenylmercuric oleate	104-60-9 203-218-6 615-009-00-0	Acute Tox Oral 2, Acute Tox Derm 1, Acute Tox Inhal 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H300, H310, H330, H373, H400, H410	<1.5

For the full text of the H-Statements mentioned in this Section, see Section 16.



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Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 **Most important symptoms and effects, both acute and delayed** None known.

4.3 **After first aid, get appropriate in-plant, paramedic, or community medical support.**

Section 5 - Fire-Fighting Measures

5.1 **Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 **Special hazards arising from the substance or mixture:** Decomposition may occur upon combustion or at elevated temperatures to generate poisonous fumes.

5.3 **Advice for firefighters:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 **Environmental precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 **Methods and material for containment and cleaning up:** Put on appropriate protective gear including approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

6.4 **Reference to other sections:** See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.



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Section 7 - Handling and Storage

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.
- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters:

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

None defined.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

None defined.

8.2 Exposure controls:

Engineering measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye protection:

Safety glasses with side-shields
Face-shield

Hand protection

Remarks:

Rubber gloves Neoprene gloves The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Skin and body protection:

Complete suit protecting against chemicals

Respiratory protection:

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.



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Filter type: Filter type K

Protective measures: Ensure that eye flushing systems and safety showers are located close to the working place.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Form:	Liquid	Appearance:	Amber liquid
Odor:	Musty	Vapor Pressure:	None (Polymeric Resin)
Odor Threshold:	No data	Vapor Density (Air=1):	>1
Viscosity:	<1000 centipoise	Specific Gravity (H2O=1, at 4 °C):	1.2
pH:	No data	Solubility:	Insoluble in water
Melting / Freezing Point:	No data	Partition coefficient (n-octanol/water):	No data
Low / High Boiling Point:	>390°F	Auto-ignition temperature:	No data
Flash Point:	>300°F	Decomposition temperature:	No data
Flammability:	f.p. at or above 200 °F	Evaporation Rate:	No data
Lower Explosion Limit:	No data	% Volatile:	0% (v/v), 0% (w/w)
Upper Explosion Limit:	No data	Relative Density:	No data

Section 10 - Stability and Reactivity

- 10.1 Reactivity:** No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.
- 10.2 Chemical stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization cannot occur.
- 10.4 Conditions to avoid:** none known
- 10.5 Incompatible materials:** strong bases and acids
- 10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

11.1 Information on toxicological effects:

- Skin Corrosion/Irritation:** no data
Serious Eye Damage/Irritation: no data
Respiratory/Skin Sensitization: no data
Germ Cell Mutagenicity: no data
Carcinogenicity: no data
Reproductive Toxicity: no data
Specific Target Organ Toxicity – Single Exposure: no data
Specific Target Organ Toxicity – Repeated Exposure: no data



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Aspiration Hazard: no data
Acute Toxicity: no data
Chronic Exposure: no data
Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

- 12.1 **Toxicity:** no data
- 12.2 **Persistence and Degradability:** no data
- 12.3 **Bioaccumulative Potential:** no data
- 12.4 **Mobility in Soil:** no data
- 12.5 **Results of PBT and vPvB assessment:** no data
- 12.6 **Other Adverse Effects:** no data

Section 13 - Disposal Considerations

- 13.1 **Waste treatment methods:** Hazardous waste according to Waste Catalogue Ordinance (AVV). If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations. Collection of small amounts of substance: Do not put/place waste into sink or dust bin. Collect in container for toxic, flammable compounds. Collection vessels must be clearly labelled with a systematic description of their contents. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.

Section 14 - Transport Information

- 14.1 **UN number:** none
- 14.2 **UN proper shipping name:** none
- 14.3 **Transport hazard class(es):** not applicable
- 14.4 **Packing group:** not applicable
- 14.5 **Environmental hazards:** none known
- 14.6 **Special precautions for user:** none known
- 14.7 **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable

Section 15 - Regulatory Information

- 15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture:**
 - Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
 - REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable
 - Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
 - Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable



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Seveso III: Directive:

Annex I Part 1 Section H1

Acute toxic Category 1, all exposure routes

Qualifying quantity for the application of

Lower-tier requirements: 5 t

Upper-tier requirements: 20 t

Annex I Part 1 Section: E1

Hazardous to the aquatic environment, Category Acute 1 or Chronic 1

Qualifying quantity for the application of

Lower-tier requirements: 100 t

Upper-tier requirements: 200 t

KEEP OUT OF REACH OF CHILDREN



WARNING: Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

Date Prepared: October 6, 2017

Revision: 1

Full text of H-Statements referred to under Sections 2 and 3.

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H373 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances
ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number;
PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class



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Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) and European Union Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH).