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(SECTION 1)

PRODUCT IDENTIFICATION

Product name: EOS Recyclable Plastic Proctoscope with Light Source

This safety data sheet pertains to the following products:

PG-22, PG-33, PG-80, PG-80N, and PG-383

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

Relevant identified uses: Mixture used for the production of molded plastic articles

(SECTION 2)

HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified as hazardous (polymeric state)

Classification according to Regulation (EC) N° 1272/2008 (CLP): Not classified as hazardous (polymeric state)

2.2 Label elements

Not labelled as hazardous

2.3 Other hazards

vPVB/PBT assessment: not available

(SECTION 3)

COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition of the substance/ preparation

Substance or Preparation Substance

Content

CAS	Name	
9003-53-6	Polystyrene or Styrene polymer	
-	Additives	

Impurities Contributing to Hazard: None

3.2 Additional information:

Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

Reach Info:

	Pre-registration No.	Registration No.
Styrene	05-2117149462-45-0000	01-2119457861-32-0006
		01-2119457861-32-0007
		01-2119457861-32-0057
		01-2119457861-32-0065
		01-2119457861-32-0081
White mineral oil (petroleum)	05-2117149492-42-0000	01-2119484627-25-0057

3.3 For full text of R- and H-phrases:

See section 16

of any other nature are made herein with respect to information of the product.

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(SECTION 4) FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Remove affected persons from the danger area, at the same time ensuring your own safety.

Remove all contaminated clothing immediately

Following inhalation: In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically

Following skin contact: In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing

with plenty of (soap and) water. Seek medical advice

Following eye contact: In case of pellets or powder, flush with plenty of water for at least 15 minutes.

Seek medical advice if any dust particles still remain.

In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least

15 minutes. Seek medical advice if necessary

Following ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary

4.2 Most important symptoms & effects both acute & delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information

4.3 Indication of any immediate medical attention and special treatment needed:

If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

(SECTION 5)

FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Water fog or fine spray, foam. Only in case of small fires: Dry chemical fire extinguishers, carbon dioxide

fire extinguishers, Sand, earth.

For safety reasons unsuitable

extinguishing agents:

High power water jet

5.2 Special hazards arising from the substance or mixture:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon dioxide. Carbon monoxide

5.3 Advice for firefighters

Protective equipment:Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing

(includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available

or not used, fight fire from a protected location or safe distance

Further measures: -

(SECTION 6)

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment & emergency procedures

Pellets or powder remained on ground may cause slipping Wear protective equipment Ensure adequate ventilation Keep away from ignition sources Keep unprotected persons away

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6.2 Environmental precautions

Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil

6.3 Methods and material for containment and cleaning up

Avoid generation of dust. Remove all sources of ignition.

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

Particular danger of slipping when spread on the ground.

(SECTION 7) HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation, and local exhaust as needed. Do not breathe dust. In the case of the **Protective measures:**

Prevent from fire around handling area

formation of dust: Withdraw by suction. Molten material: Avoid contact with the substance.

Measures to prevent fire:

Measures to prevent aerosol

and dust generation:

Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for

bag filters.

Measures to protect the

environment:

Advice on general occupational

hygiene:

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage

conditions:

Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

and vessels:

Requirements for storage rooms Store in a well-ventilated place. Keep container tightly closed. Protect against heat/sun rays

Suitable materials and coating:

Unsuitable materials or

coatings:

Further information on storage

conditions:

7.3 Specific end use(s)

Recommendations: See the recommended processing condition and technical data sheet on this product for further information.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

Exposure Limits: Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

8.2 Exposure control

Appropriate engineering

Install eyes washer and shower in the place of operation. Provide local exhaust ventilation system.

Ensure compliance with applicable exposure limits

Personal protection:

controls:

Respiratory protection: Wear masks for cleaning molding machines

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Hand protection: Heat-insulting gloves when handling molten form

Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines Eye protection:

Skin and body protection: Gloves necessary for handling melted resin

Hygiene measures: Wash hands after handling

8.3 Environmental exposure controls

Product related measures to None specific

prevent exposure:

Instruction measures to prevent None specific

exposure:

Organizational measures to

prevent exposure:

None specific

Technical measures to prevent

exposure:

None specific

Environmental exposure

controls:

None specific

(SECTION 9) PHYSICAL/CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Physical state: solid, granulate

Odour Odorless or negligible Natural or off white Colour **Odour threshold** No test data available Not applicable Hα

Melting point / freezing point 90 - 135°C Literature Initial boiling point and Not applicable

boiling range

Flash point >280°C

Evaporation rate (Butyl Acetate = 1) Not applicable to solids

Flammability (solid, gas). No

Upper/lower flammability or explosive limits Not applicable Vapour pressure Not applicable Vapour density (air = 1) Not applicable Relative density $(H_{y}0 = 1)$ 1.04 - 1.06 Literature **Bulk density** Not available

Solubility in water (by weight) Insoluble Partition coefficient (n-octanol/water) Not available **Auto-ignition temperature** Not self-igniting.

Decomposition temperature 300°C

Viscosity Not applicable **Explosive properties** Not explosive **Oxidizing properties** Not oxidizing

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SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: Non-reactive under normal handling and storage conditions 10.2 Chemical stability: Stable under normal handling and storage conditions

Polymerization will not occur. 10.3 Possible hazardous reaction:

10.4 Conditions to avoid: Avoid temperatures above 300 °C. Exposure to elevated temperatures can cause product to

decompose

10.5 Incompatible materials: Strong oxidizing agents, Gasoline, aldehydes, ketone

10.6 Hazardous decomposition

products:

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating. Decomposition products can include and are not limited to: Combustible gases. In case of fire may be liberated: smoke, Styrene-Monomer, aldehydes and acids (organic), carbon monoxide and carbon dioxide (CO₂).

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met. Mild acute toxicity Acute toxicity (dermal): Based on available data, the classification criteria are not met. Mild acute toxicity Acute toxicity (inhalative): Based on available data, the classification criteria are not met. Mild acute toxicity Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data. The chemical structure does not suggest a specific alert for such an effect.

Skin sensitisation: Based on available data, the classification criteria are not met. Not sensitizing

Germ cell mutagenicity/Genotoxicity: Lack of data. The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Lack of data. The chemical structure does not suggest a specific alert for such an effect.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Dusts: Can cause skin, eve and respiratory tract irritation.

Specific target organ toxicity (repeated exposure): Lack of data.

Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.

Dust:Can cause skin, eve and respiratory tract irritation.

The melted product can cause severe burns.

Irritating to eyes, respiratory system and skin.

In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

ECOLOGICAL INFORMATION

12.1 Toxicity

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

12.2 Persistence and degradability

Further details: Biodegradation: Product is not readily biodegradable.

Degradation at UV-radiation/sunlight

Environmental half-life period: >=100 days (estimated) The product is likely to persist in the environment.

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Effects in sewage plants:

In sewage treatment plants it may be separated mechanically.

12.3 Bioaccumulative potential

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments

12.4 Mobility in soil

Version Number:

12.5 Results PT & vPvB assessment

This mixture has not been assessed for persistence. bioaccumulation and toxicity (PBT).

12.6 Other adverse effects:

General information: Do not allow to enter into ground-water, surface water or drains.

(SECTION 13)

DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal: Dispose in accordance with the current local regulations.

Waste codes according to

European Waste Catalogue:

Waste treatment-relevant

information:

Inadequate incineration may generate toxic gases such as CO. HCN. AN and SM

Sewage disposal-relevant

information:

Other disposal recommendations:

(SECTION 14) TRANSPORT INFORMATION

ADR/RID

14.1 UN number Not applicable

14.2 UN proper shipping name

NOT REGULATED Proper Shipping Name: 14.3 Transport hazard class(es) Not applicable 14.4 Packing Group Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

Special Provisions: No data available **Hazard identification No.:** No data available

ADN / ADN

14.1 UN number Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED 14.3 Transport hazard class(es) Not applicable 14.4 Packing Group Not applicable

14.5 Environmental hazards Not considered environmentally hazardous based on available data

14.6 Special precautions for user No data available

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IMDG

14.1 UN number Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED 14.3 Transport hazard class(es) Not applicable 14.4 Packing Group Not applicable

14.5 Environmental hazards Not considered environmentally hazardous based on available data

14.6 Special precautions for user

EMS Number: Not applicable

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

Not applicable

ICAO/IATA

14.1 UN number Not applicable

14.2 UN proper shipping name

NOT REGULATED Proper Shipping Name: 14.3 Transport hazard class(es) Not applicable 14.4 Packing Group Not applicable

14.5 Environmental hazards Not considered environmentally hazardous based on available data

14.6 Special precautions for user No data available

Hazchem-Code:

Cool endangered containers with water jetspray.

REGULATORY INFORMATION

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

Authorization and / or restrictions

on use:

Other EU regulations: The following substances are under European Seveso regulation:

European Inventory of Existing Commercial Chemical Substances (EINECS)

This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements

Other national regulations:

15.2 Chemical Safety Assessment For this substance a chemical safety assessment is not yet required.

(SECTION 16) OTHER INFORMATION

16.1 Indication of changes

Version 1: First issue according to Regulations (EC) 1907/2006 (REACH) & 1272/2008 (CLP)

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16.2 Abbreviations and acronyms

AGS	Ausschuss für Gefahrstoffe	LoW	List of Waste
AF	Assessment Factor	MARPOL	MARine POLlution
BCF	BioConcentration Factor	MIE	Minimum Ignition Energy
CAS	Chemical Abstract Service	N EC	European Commission number
CMR	Carcinogenic, Mutagenic and Reprotoxic	NFPA	National Fire Protection Association
CSR	Chemical Safety Report	NIOSH	National Institute of Occupational Safety and Health
DFG	German Research Foundation	NOEC	No Obseved Effect Concentration
DNEL	Derived No Effect Level	NOELR	No Observed Effect Loading Rate
EC	European Commission	OECD	Organisation for Economic Co-operation and Development
EC50	Effective Concentration	OEL	Occupational Exposure Limit
	(required to induce a 50% effect)		
EEC	European Economic Community	OSHA	Occupational Safety and Health Administration
EWC	European Waste Catalogue Code	PBT	Persistant Bioaccumulable Toxique
IDLH	Immediately Dangerous to Life or Health	PNEC	Previsible Non Effect Concentration
IBC	International Bulk Chemical	QSAR	Quantitative Structure-Activity Relationship
Koc	Soil/Water Partition Coefficient	STOT	Specific Target Organ Toxicity
Kow	Octanol/Water Partition Coefficient	TCLo	Toxic Concentration Low
LC50	Lethal Concentration 50	TDLo	Toxic Dose Low
LD50	Lethal Dose 50	UN	United Nations
LEL	Lower Explosive Limit	UVCB	Unknown or Variable Composition Complex
			Reaction Products, or Biological Materials
LL100	Lethal Loading	vPvB	very Persistent, very Bioaccumulative
LOEC	Lowest Observed Effect Concentration		

16.3 Key literature references and sources for data

http://esis.jrc.ec.europa.eu/ http://echa.europa.eu/ http://gestis-en.itrust.de

16.4 Relevant -phrases and/or H-statements (number and full text):

H220	Extremely flammable gas	R10	Flammable
H225	Highly flammable liquid and vapour	R11	Highly flammable
H226	Flammable liquid and vapour	R12	Extremely flammable
H301	Toxic if swallowed	R20	Harmful by inhalation
H311	Toxic in contact with skin	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
H315	Causes skin irritation	R36	Irritating to eyes
H317	May cause an allergic skin reaction	R37	Irritating to respiratory system
H318	Causes serious eye damage	R38	Irritating to skin
H319	Causes serious eye irritation	R40	Limited evidence of a carcinogenic effect
H331	Toxic if inhaled	R41	Risk of serious damage to eyes
H332	Harmful if inhaled	R43	May cause sensitisation by skin contact
H335	May cause respiratory irritation	R45	May cause cancer
H340	May cause genetic defects	R46	May cause inheritable genetic damage
H350	May cause cancer	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H351	Suspected of causing cancer		
H400	Very toxic to aquatic life	R51/53	Toxic to aquatic organisms, may cause long-term
H411	Toxic to aquatic life with long lasting effects		adverse effects in the aquatic environment

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16.5 Further information:

According to the guidance version 2.0 for monomers and polymers from the European Chemicals Agency dated as of April 2012, the classification of the polymer takes into account the classification of all its constituents, such as unreacted monomers. These constituents in fact should be taken into account for classification of the polymer. This means that the same classification methods as for mixture should be applied to polymer substances. In order to determine a classification for the studies about the water soluble fraction as well as the absorption should be performed on the polymer as such.

Reason for revision: To bring to date.

END OF SDS