57-060200 SS PATCH BOOSTER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 03/05/2021

Version: 5.4

SECTION 1: Identification

1.1. Identification

Product name	:	57-060200 SS PATCH BOOSTER
Product form	:	Mixture
Product code	:	US1040776XX

1.2. Recommended use and restrictions on use

Use of the substance/mixture	:	Product for industrial use only
Prohibited for use	:	Applications involving permanent implantation into the body European class III medical devices FDA Class III medical devices Health Canada class IV Medical Devices Life-sustaining medical applications

1.3. Supplier

LyondellBasell Advanced Polymers, Inc.

LyondellBasell Tow er, Suite 300

1221 McKinney St.

P.O. Box 2583

Houston, TX 77252-2583

Customer service phone : 1-800-54-RESIN

Regulatory information: ASI-Amer.Regulatory.Requests@lyondellbasell.com

1.4. Emergency telephone number

Emergency number		For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 CCN13495 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US and GHS-Canada classification

Flammable liquids, Category 2	Highly flammable liquid and vapour.
Skin corrosion/irritation, Category 2	Causes skin irritation.
Sensitisation — Skin, category 1	May cause an allergic skin reaction.
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation.

2.2. GHS Label elements, including precautionary statements

GHS-US and GHS-Canada labelling

Hazard pictograms (GHS-US and GHS-Canada) :

Signal w ord (GHS-US and GHS-Canada)	:	Danger
Hazard statements (GHS-US and GHS-Canada)	:	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.
Precautionary statements (GHS-US and GHS-	:	Keep aw ay from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Canada)	heat, sparks, open flames, hot surfaces Keep cool. Do not breathe dust, fume, gas, mist, spray, vapours. Wash face, hands, hands, forearms and face thoroughly after handling Avoid release to the environment. Wear eye protection, face protection, protective gloves. Immediately call a doctor, a POISON CENTER. In case of fire: Use ABC-powder, carbon dioxide (CO2), dry extinguishing powder, dry sand, foam to extinguish. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS-US and GHS-Canada)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
2-Methyl-2-propenoic acid, methyl ester	CAS No.: 80-62-6	≥ 80
Paraffin Wax	CAS No.: 8002-74-2	1 – 5

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Move the affected person away from the contaminated area. Immediately consult a doctor/medical service. If possible, show him this sheet. Failing this, show him the packaging or label. Do not leave affected person unattended.

First-aid measures after inhalation : Call a physician immediately. If unconscious place in recovery position and seek medical advice.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. If symptoms persist, call a physician.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If eye irritation persists, consult a specialist.

First-aid measures after ingestion : In all cases of doubt, or when symptoms persist, seek medical advice. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not give milk.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Skin irritation, dermatitis and sensitisation. May cause sensitisation of susceptible persons by skin contact.

Symptoms/effects after ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

If you feel unwell, seek medical advice.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol resistant foam. dry chemical pow der. Carbon dioxide.
Unsuitable extinguishing media : high volume w ater jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Do not allow run-off from fire fighting to enter drains or w ater courses.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Comply w ith local regulations for disposal.
Protection during firefighting : In case of fire: Wear self-contained breathing apparatus.
Other information : Use w ater spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing w ater separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.
Emergency procedures : Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to a safe area. Special attention should be given to low areas/pits w here flammable vapours can accumulate.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sew ers and public w aters. Notify authorities if liquid enters sew ers or public w aters.

6.3. Methods and material for containment and cleaning up

For containment : Collect the residue by means of a non-combustible absorbent material. Collect all w aste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up : Collect spillage. Absorb w ith liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Store in a w ell-ventilated place. Keep container tightly closed.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Use isolated drainage to prevent discharge to soil. Take precautionary measures against static discharge. The product may charge electrostatically: use earthling leads w hen transferring from one container to another. In order to rule out potential electrostatic discharge production, the system must be adequately grounded.
Precautions for safe handling : Do not exceed the occupational exposure limits (OEL). Avoid contact w ith skin and eyes. Provide sufficient air exchange and/or exhaust. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do no eat, drink or smoke w hen using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, w ell ventilated place aw ay from sources of heat, ignition and direct sunlight. Containers w hich are opened should be properly resealed and kept upright to prevent leakage.
Storage temperature : < 25 °C

Heat and ignition sources : This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g, static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers w hich have not been. Explosion-free electrical equipment and lighting w ith earth. Electrical equipment should be protected to the appropriate standard.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

57-060200 SS PATCH BOOSTER	
No additional information available	
Paraffin Wax (8002-74-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (fume)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	2 mg/m³
2-Methyl-2-propenoic acid, methyl ester (80-62-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	205 mg/m³
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL	410 mg/m³
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	URT & eye irr; body w eight eff; DSEN; RSEN; A4 (Not classifiable as a Human Carcinogen: Agents w hich cause concern that they could be carcinogenic for humans but w hich cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity w hich are sufficient to classify the agent into one of the other categories)
ACGIH chemical category	dermal sensitizer, Not Classifiable as a Human Carcinogen
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	410 mg/m³
OSHA PEL TWA [2]	100 ppm
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	1000 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	410 mg/m³
NIOSH REL TWA [ppm]	100 ppm

8.2. Appropriate engineering controls

Environmental exposure controls : Do not empty into drains.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:
Chemical resistant safety shoes. Overall.
Hand protection:
Wear suitable gloves. PVC gloves. A waterproof cream can protect exposed skin parts. Do not use if contact has already taken place. In case of reutilization, clean gloves before taking off and store in well-aired place. Before removing gloves clean them with soap and water. Protective gloves have to be replaced at the first sign of deterioration.
Eye protection:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Safety glasses with side shields. Do not wear contact lenses
Skin and body protection:
Wear anti-static footwear and clothing. Tight protective clothing required. Only wear fitting, comfortable and clean protective clothing. Wash clothing before re-using. Avoid contact with skin. May cause sensitisation of susceptible persons by skin contact
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode. Consult supplier for specific recommendations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	BWN - brown
Odour	:	Pungent
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	≈ 100 °C
Flash point	:	≈ 10 °C
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	4,5
Relative density	:	No data available
Solubility	:	Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	< 1 mm²/s
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents. Peroxides.

10.6. Hazardous decomposition products

Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified

2-Methyl-2-propenoic acid, methyl ester (80-62-6)	
IARC group	3 - Not classifiable

Reproductive toxicity	:	Not classified
STOT-single exposure	:	May cause respiratory irritation.
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/effects after inhalation	:	May cause respiratory irritation.
Symptoms/effects after skin contact	:	Skin irritation, dermatitis and sensitisation. May cause sensitisation of susceptible persons by skin contact.
Symptoms/effects after ingestion	:	May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

57-060200 SS PATCH BOOSTER	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

57-060200 SS PATCH BOOSTER	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations. Hazardous waste. Solvent.
Sewage disposal recommendations : Do not allow to enter into surface water or drains.
Waste disposal recommendations : Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packaging in the same way as the product itself.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : UN1247 Methyl methacrylate monomer, stabilized (flammable), 3, II
UN-No.(DOT) : UN1247
Proper Shipping Name (DOT) : Methyl methacrylate monomer, stabilized
flammable
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT) : II - Medium Danger
Hazard labels (DOT) : 3 - Flammable liquid

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102)	:	387 - When materials are stabilized by temperature control, the provisions of §173.21(f) of this subchapter apply. When chemical stabilization is employed, the person offering the material for transport shall ensure that the level of stabilization is sufficient to prevent the material as packaged from dangerous polymerization at 50 °C (122 °F). If chemical stabilization becomes ineffective at lower temperatures within the anticipated duration of transport, temperature control is required and is forbidden by aircraft. In making this determination factors to be taken into consideration include, but are not limited to, the capacity and geometry of the packaging and the effect of any insulation present, the temperature of the material when offered for transport, the duration of the journey, and the ambient temperature conditions typically encountered in the journey (considering also the season of year), the effectiveness and other properties of the stabilizer employed, applicable operational controls imposed by regulation (e.g. requirements to protect from sources of heat, including other cargo carried at a temperature above ambient) and any other relevant factors. The provisions of this special provision will be effective until January 2, 2019, unless we terminate them earlier or extend them beyond that date by notice of a final rule in the Federal Register. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	25 - Protected from sources of heat,40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	129P

Transportation of Dangerous Goods

Transport document description (TDG)	:	UN1247 METHYL METHACRYLATE MONOMER, STABILIZED (flammable), 3, II
UN-No (TDG)	:	UN1247
Proper Shipping Name (TDG)	:	METHYL METHACRYLATE MONOMER, STABILIZED
TDG Primary Hazard Classes	:	3 - Class 3 - Flammable Liquids
Packing group (TDG)	:	II - Medium Danger
TDG Special Provisions	:	155 - (1) If these dangerous goods are stabilized by temperature control, they must be offered for transport, handled and transported in accordance with section 7.1.6 of the UN Recommendations. (2) If chemical stabilization is employed, the person offering the means of containment for transport must ensure that the level of stabilization will prevent a dangerous polymerization of the dangerous goods at a bulk mean temperature of 50°C in the case of a small means of containment or an intermediate bulk container (IBC) or, in the case of a large means of containment that is not an IBC, at a bulk mean temperature of 45°C. (3) If chemical stabilization may become ineffective at lower temperatures within the anticipated duration of transport, temperature control is required. In determining whether chemical stabilization may become ineffective at lower temperatures, the person offering the means of containment for transport must take at least the following the factors into consideration: (a) the capacity and geometry of the means of containment and the effect of any insulation; (b) the temperature of the dangerous goods when offered for transport; (c) the duration of the transport and the seasonal ambient temperature conditions typically encountered during transport; and (d) the effectiveness and other physical or chemical properties of the stabilizer employed.
Explosive Limit and Limited Quantity Index	:	1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	5 L

Transport by sea

Transport document description (IMDG)	: UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED (flammable), 3, II (8°C c.c.)
UN-No. (IMDG)	: 1247
Proper Shipping Name (IMDG)	: METHYL METHACRYLATE MONOMER, STABILIZED
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1 L

Air transport

Transport document description (IATA)	: UN 1247 Methyl methacrylate monomer, stabilized (flammable), 3, II
UN-No. (IATA)	: 1247
Proper Shipping Name (IATA)	: Methyl methacrylate monomer, stabilized
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory with status Active

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.			
2-Methyl-2-propenoic acid, methyl ester	CAS No 80-62-6	SARA Section 313 - Emission Reporting 1,0%	80 - 100%

15.2. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Paraffin Wax (8002-74-2)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

2-Methyl-2-propenoic acid, methyl ester (80-62-6)
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Illinois - Toxic Air Contaminants
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date : 03/05/2021
Version : 5.4

Abbreviations and acronyms	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SVHC	Substance of very high concern
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterw ays
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("MARPOL" is short for marine pollution and 73/78 short for the years 1973 and 1978.)
IBC	The International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
OSHA	Occupational Safety & Health Administration
TWA	Time Weighted Average
STEL	Occupational Exposure Limits - Short Term Exposure Limits (STELs)
ACGIH	American Conference of Governement Industrial Hygienists
TLV	Threshold Limit Value
IARC	International Agency for Research on Cancer
ED	Endocrine disrupting properties

Indication of changes:			
Version	**Indication of changes**	**Change**	**Comments**
5.1	1.3 > Company	Added	
5.2	1.4 > Emergency phone number	Modified	
5.2	14 > TDG	Modified	
5.3	16 > Abbreviations and acronyms	Modified	
5.4	1.2 > Schulman Prohibited Uses	Added	
5.4	3.2 > Composition/information on ingredients > 2-Methyl-2-propenoic acid, methyl ester > Concentration	Modified	
5.4	3.2 > Composition/information on ingredients > Paraffin Wax > Concentration	Modified	
5.4	8.1 > Control parameters	Added	

5.4	11.1 > Reproductive toxicity	Added	
5.4	14 > DOT	Modified	
5.4	15.3 > DSL and NDSL	Removed	

Information in this document is accurate to the best of our know ledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any w arranty or quality specification, either express or implied, including any w arranty of merchantability or fitness for any particular purpose. Users shall deter mine w hether the product is suitable for their use and can be used safely and legally.
In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative or visit the LyondellBasell w ebsite at:
https://www.lyondellbasell.com/en/products-technology/product-safety-stewardship/
The Trade Name referenced in section 1 is a trademark ow ned or used by the LyondellBasell family of companies.