

Resin

# SAFETY DATA SHEET

# **DOW CHEMICAL COMPANY LIMITED**

Safety Data Sheet according to Reg. (EU) No 2015/830

Product name: AMBERLITE™ MB20 H/OH Ion Exchange

Revision Date: 06.12.2018 Version: 5.1

Date of last issue: 16.10.2018

**Print Date:** 07.12.2018

DOW CHEMICAL COMPANY LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: AMBERLITE™ MB20 H/OH Ion Exchange Resin

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

Identified uses: Ion exchange and/or Adsorption process

1.3 Details of the supplier of the safety data sheet COMPANY IDENTIFICATION

DOW CHEMICAL COMPANY LIMITED STATION ROAD, BIRCH VALE, HIGH PEAK DERBYSHIRE England SK22 1BR UNITED KINGDOM

**Customer Information Number:** 

+44 (0) 1663 746518 SDSQuestion@dow.com

Fax:

+44 (0) 1663 746605

1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 0031 115 694 982 **Local Emergency Contact:** 00 31 115 69 4982

### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008:

Serious eye damage - Category 1 - H318

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

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

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### **Hazard pictograms**



# Signal word: DANGER

#### **Hazard statements**

H318 Causes serious eye damage.

# **Precautionary statements**

P280 Wear eye protection/ face protection.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

+ P338 + if present and easy to do. Continue rinsing. Immediately call a POISON

P310 CENTER/doctor.

Signal word: DANGER

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**Contains** Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide

form; Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen

form

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form; Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen

form

# 2.3 Other hazards

No data available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature:** Quaternary ammonium divinylbenzene/styrene copolymer., Sulfonated divinylbenzene/styrene copolymer.

3.2 Mixtures

This product is a mixture.

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CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN 69011-20-7 EC-No. Polymer Index-No.	_	>= 20.0 - < 30.0 %	Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form	Eye Dam 1 - H318
CASRN 69011-18-3 EC-No. Polymer Index-No.	_	>= 20.0 - < 30.0 %	Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form	Eye Dam 1 - H318

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:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: No emergency medical treatment necessary.

# 4.2 Most important symptoms and effects, both acute and 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 Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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# **SECTION 5: FIREFIGHTING MEASURES**

# 5.1 Extinguishing media

**Suitable extinguishing media:** Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

Unsuitable extinguishing media: No data available

# 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:** Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Sulfur oxides. Organic sulfonates. Hydrocarbons. Carbon monoxide. Carbon dioxide. Benzene compounds.

**Unusual Fire and Explosion Hazards:** This material will not burn until the water has evaporated. Residue can burn.

# 5.3 Advice for firefighters

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone.

**Special protective equipment for firefighters:** 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.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures:** Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Spilled material may cause a slipping hazard. Keep upwind of spill. Ventilate area of leak or spill. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- **6.2 Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.
- **6.3 Methods and materials for containment and cleaning up:** Contain spilled material if possible. Sweep up. Recover spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.
- **6.4 Reference to other sections:** References to other sections, if applicable, have been provided in the previous sub-sections.

# **SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:** Do not get in eyes. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Static electricity can accumulate on dry beads. Leave room for expansion as dry resin swells upon wetting and/or changing ionic form. Equipment

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construction material should be compatible with feed, regenerant, ionic form and effluent of the ion exchange process. Avoid generating and breathing dust. Good housekeeping and controlling of dusts are necessary for safe handling of product. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

7.2 Conditions for safe storage, including any incompatibilities: Store in a dry place. Keep container tightly closed when not in use. Preferred storage temperature is in the lower half of the range given below.

Keep in a dry, cool place. Keep container tightly closed.

Storage stability

Shelf life: Use within Storage temperature: 0 - 50 °C 36 Month

7.3 Specific end use(s): See the technical data sheet on this product for further information. Other data: CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

### 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or quidelines, general ventilation should be sufficient for most operations.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.

### **Individual protection measures**

Eye/face protection: Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

# Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Neoprene. When prolonged or frequently repeated contact may occur, a glove is recommended to prevent contact with the solid material. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear clean, body-covering clothing.

Respiratory protection: Under intended handling conditions, no respiratory protection should be needed.

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# **Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state Beads

Coloramber brownOdorAmine odor

Odor Threshold No data available

pH 5.0 - 9.0 Aqueous slurry

Melting point/rangeNo data availableFreezing pointNo data availableBoiling point (760 mmHg)100.00 °C WaterFlash pointNo data availableEvaporation Rate (Butyl AcetateNo data available

= 1)

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapor Pressure

No data available

Not Applicable

Not Applicable

22 hPa at 20 °C

Relative Vapor Density (air = 1) <1.0000

Relative Density (water = 1) 1.0800 - 1.2000
Water solubility practically insoluble
Partition coefficient: n- No data available

octanol/water

Auto-ignition temperature500.00 °C estimatedDecomposition temperatureNo test data availableKinematic ViscosityNo data availableExplosive propertiesNo data availableOxidizing propertiesNo data available

9.2 Other information

Molecular weightNo data availablePercent volatility59.00 - 64.00 %Particle size0.300 - 1.200 mm

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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# **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.

**10.3 Possibility of hazardous reactions:** Stable under normal conditions.

Polymerization will not occur.

- 10.4 Conditions to avoid: Exposure to elevated temperatures can cause product to decompose.
- **10.5 Incompatible materials:** Avoid contact with oxidizing materials. Oxidizing agents such as nitric acid attack organic exchange resins under certain conditions. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of the reaction with oxidizing materials can vary from slight degradation to an explosive reaction.
- **10.6 Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aromatic compounds. Hydrocarbons. Organic sulfonates. Sulfur oxides.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicological information appears in this section when such data is available.

# 11.1 Information on toxicological effects Acute toxicity

#### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

Typical for this family of materials.

LD50, Rat, > 5,000 mg/kg

#### Acute dermal toxicity

No adverse effects anticipated by skin absorption.

The dermal LD50 has not been determined.,

### Acute inhalation toxicity

No adverse effects are anticipated from inhalation. Vapors are unlikely due to physical properties. For respiratory irritation and narcotic effects: No relevant data found. The LC50 has not been determined.

#### Skin corrosion/irritation

Prolonged exposure not likely to cause significant skin irritation.

May cause more severe response if skin is abraded (scratched or cut).

#### Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

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#### Sensitization

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

# Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

#### Carcinogenicity

No relevant data found.

#### **Teratogenicity**

No relevant data found.

# Reproductive toxicity

No relevant data found.

#### Mutagenicity

No relevant data found.

#### **Aspiration Hazard**

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

# **COMPONENTS INFLUENCING TOXICOLOGY:**

# <u>Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form</u> Acute inhalation toxicity

The LC50 has not been determined.

# **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological information appears in this section when such data is available.

#### **General Information**

Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).

### 12.1 Toxicity

# <u>Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form</u> Acute toxicity to fish

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.

# <u>Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form</u> Acute toxicity to fish

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No relevant data found.

# 12.2 Persistence and degradability

# Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form Biodegradability: No appreciable biodegradation is expected.

# <u>Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form</u> Biodegradability: No relevant data found.

# 12.3 Bioaccumulative potential

# Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form

**Bioaccumulation:** No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

# <u>Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form</u> <u>Bioaccumulation:</u> No relevant data found.

# 12.4 Mobility in soil

# Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form

In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

# <u>Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form</u> No relevant data found.

# 12.5 Results of PBT and vPvB assessment

# Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form

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

### Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form

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

#### 12.6 Other adverse effects

#### Sulfonated polymer of styrene, ethylstyrene and divinylbenzene in the hydrogen form

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

# Trimethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form

This substance is not on the Montreal Protocol list of 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

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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.

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.

**Contaminated packaging:** Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

# **SECTION 14: TRANSPORT INFORMATION**

# Classification for ROAD and Rail transport (ADR/RID):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 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.

### Classification for SEA transport (IMO-IMDG):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 Packing group Not applicable

**14.5** Environmental hazards Not considered as marine pollutant based on available data.

**14.6** Special precautions for user No data available.

14.7 Transport in bulk according to Annex I or II of MARPOL

73/78 and the IBC or IGC

Code

Consult IMO regulations before transporting ocean bulk

# Classification for AIR transport (IATA/ICAO):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable
 14.4 Packing group Not applicable
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container

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volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# **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 registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH).. Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered, or are exempt from 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 thathis/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable Listed in Regulation: Not applicable

# 15.2 Chemical safety assessment

Not applicable

# SECTION 16: OTHER INFORMATION

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

H318 Causes serious eye damage.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

Eye Dam. - 1 - H318 - Based on product data or assessment

#### **Product Literature**

Additional information on this product may be obtained by calling your sales or customer service contact.

#### Revision

Identification Number: 99114022 / A279 / Issue Date: 06.12.2018 / Version: 5.1 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this

document.

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#### Legend

Eye Dam. Serious eye damage

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States): UN - United Nations: vPvB - Very Persistent and Very Bioaccumulative

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW CHEMICAL COMPANY LIMITED urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other

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than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version. GB