SAFETY DATA SHEET

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

As of the revision date above, this (M)SDS meets the regulations in the United Kingdom & Ireland.

1.1. PRODUCT IDENTIFIER
Product Name: EXXON™ BUTYL RUBBER
Product Description: Isobutylene Copolymer, see Section 16 for applicable grades.

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST
Intended Use: Adhesive, Rubber applications

Uses advised against: None unless specified elsewhere in this SDS.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Supplier: ExxonMobil Chemical Belgium
A division of ExxonMobil Petroleum & Chemical
Polderdijkweg 3B
B-2030 Antwerpen
Belgium
Phone: 32 3 543 31 11

Local Contact: ExxonMobil Chemical Ltd.
MAILPOINT 88
CADLAND ROAD
HARDLEY, SOUTHAMPTON
SO45 3NP HAMPSHIRE
Great Britain

Supplier General Contact: +44 (0)23-8089-3822 / (0)23-8089-5297
E-Mail: sds.uk@exxonmobil.com

1.4. EMERGENCY TELEPHONE NUMBER
24 Hour Environmental / Health Emergency
+(44)-8708200418 (CHEMTREC)

SECTION 2 HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE
Classification according to Regulation (EC) No 1272/2008
Not Classified

Classification according to EU Directive 67/548/EEC / 1999/45 EC

Not Classified

2.2. LABEL ELEMENTS

No Label elements according to Regulation (EC) No 1272/2008

2.3. OTHER HAZARDS

Physical / Chemical Hazards:
WARNING: May form combustible dust concentrations in air (during processing/handling). Thermal burn hazard - contact with hot material may cause thermal burns.

Health Hazards:
If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. No adverse effects due to inhalation are expected. When heated, the vapour/fumes given off may cause respiratory tract irritation.

Environmental Hazards:
No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. SUBSTANCES
Not Applicable. This material is regulated as a mixture.

3.2. MIXTURES
This material is defined as a mixture.

Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>EC#</th>
<th>Registration#</th>
<th>Concentration*</th>
<th>GHS/CLP classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL</td>
<td>128-37-0</td>
<td>204-881-4</td>
<td>01-2119565113-46</td>
<td>&lt; 0.25%</td>
<td>Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1)</td>
</tr>
<tr>
<td>CALCIUM STEARATE</td>
<td>1592-23-0</td>
<td>216-472-8</td>
<td>NE</td>
<td>&lt; 2%</td>
<td>OEL</td>
</tr>
<tr>
<td>OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)</td>
<td>557-05-1</td>
<td>209-151-9</td>
<td>NE</td>
<td>0 - 1.5%</td>
<td>OEL</td>
</tr>
</tbody>
</table>

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.
SECTION 4  FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

INHALATION
At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected. In case of adverse exposure to vapours and/or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

SKIN CONTACT
Wash contact areas with soap and water. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

EYE CONTACT
Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION
First aid is normally not required. Seek medical attention if discomfort occurs.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
No important symptoms or effects.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

SECTION 5  FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA
Suitable Extinguishing Media: Use water fog, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unsuitable Extinguishing Media: Straight streams of water

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Hazardous Combustion Products: Flammable hydrocarbons, Incomplete combustion products, Smoke, Fume, Oxides of carbon

5.3. ADVICE FOR FIRE FIGHTERS
Fire Fighting Instructions: Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

FLAMMABILITY PROPERTIES
Flash Point [Method]: Not technically feasible
Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available LEL: No data available
Autoignition Temperature: Not technically feasible

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

NOTIFICATION PROCEDURES
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES
Avoid contact with spilled material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2. ENVIRONMENTAL PRECAUTIONS
Prevent entry into waterways, sewers, basements or confined areas.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Land Spill: Prevent dust cloud. Scrape up spilled material with shovels into a suitable container for recycle or disposal.

Water Spill: Confine the spill immediately with booms.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be
consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4. REFERENCES TO OTHER SECTIONS
See Sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING
Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dust from material can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source). Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation. Consult local applicable standards for guidance. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids and EN 61241, Electrical Apparatus for Use in the Presence of Combustible Dust for safe handling. Avoid elevated temperatures for prolonged periods of time. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid vapour from heated materials to prevent exposure to potentially toxic/irritating fumes. Prevent small spills and leakage to avoid slip hazard. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Loading/Unloading Temperature: [Ambient]

Static Accumulator: This material is not a static accumulator.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
Do not store in open or unlabelled containers.

Storage Temperature: [Ambient]

Suitable Containers/Packing: Cardboard Cartons; Wooden Crates; Steel crates
Suitable Materials and Coatings (Chemical Compatibility): Paper; Wood; Steel; Aluminium

7.3. SPECIFIC END USES: Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Form</th>
<th>Limit/Standard</th>
<th>Note</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
<td>UK EH40</td>
</tr>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL</td>
<td>Inhalable fraction and vapour</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
CALCIUM STEARATE  TWA  10 mg/m³  ACGIH
OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)  STEL  20 mg/m³  UK EH40
OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)  Inhalable dust.  TWA  10 mg/m³  UK EH40
OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)  Inhalable dust.  STEL  20 mg/m³  UK EH40
OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)  Respirable dust.  TWA  4 mg/m³  UK EH40
OCTADECANOIC ACID, ZINC SALT (ZINC STEARATE)  TWA  10 mg/m³  ACGIH

UK EH40 Workplace Exposure Limits. Exposure limits for use with Control of Substances Hazardous to Health Regulations 2002 (as amended)

Exposure limits/standards for materials that can be formed when handling this product:  For dusty conditions, ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m³ (inhalable particles), 3 mg/m³ (respirable particles).

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):
UK  Health and Safety Executive (HSE)

8.2. EXPOSURE CONTROLS

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

SPECIAL PRECAUTIONS:  Should significant vapours/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (for example, oxygenated components). Processors of this product should assure that adequate ventilation or other controls are used to control exposure. It is recommended that the current ACGIH-TLVs for thermal degradation by-products be observed. Contact your local sales representative for further information.  It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product are designed and maintained to minimize dust generation and accumulation.  Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation.  For example, use explosion relief vents, an explosion suppression system or inert equipment internals.  Additional examples of proper equipment include using only appropriately classified electrical equipment and powered industrial trucks.
PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

- Particulate air-purifying respirator approved for dust or oil mist is recommended. European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

- If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

- If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** Solid
- **Form:** Chunk
- **Colour:** White to Off-White
- **Odour:** None to Mild
- **Odour Threshold:** Not technically feasible
- **pH:** Not technically feasible
- **Melting Point:** No data available
- **Freezing Point:** Not technically feasible
- **Initial Boiling Point / and Boiling Range:** Not technically feasible
- **Flash Point [Method]:** Not technically feasible
- **Evaporation Rate (n-butyl acetate = 1):** Not technically feasible
- **Flammability (Solid, Gas):** Not technically feasible
- **Upper/Lower Flammable Limits (Approximate volume % in air):** UEL: No data available LEL: No data available
- **Vapour Pressure:** Not technically feasible
- **Vapour Density (Air = 1):** Not technically feasible
- **Relative Density:** No data available
- **Solubility(ies): water Negligible**
- **Partition coefficient (n-Octanol/Water Partition Coefficient):** Not technically feasible
- **Autoignition Temperature:** Not technically feasible
- **Decomposition Temperature:** No data available
- **Viscosity:** Not technically feasible
- **Explosive Properties:** None
- **Oxidizing Properties:** None

9.2. OTHER INFORMATION

- **Density:** 920 kg/m³ (7.68 lbs/gal, 0.92 kg/dm³) [test method unavailable]
- **Hygroscopic:** No

SECTION 10 STABILITY AND REACTIVITY

10.1. REACTIVITY: See sub-sections below.

10.2. CHEMICAL STABILITY: Material is stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

10.4. CONDITIONS TO AVOID: Avoid elevated temperatures for prolonged periods of time.

10.5. INCOMPATIBLE MATERIALS: No data available

10.6. HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.
## 11. INFORMATION ON TOXICOLOGICAL EFFECTS

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Conclusion / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Toxicity:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Minimally Toxic. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td>Irritation:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Negligible hazard at ambient/normal handling temperatures.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Toxicity:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Minimally Toxic. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Toxicity:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Minimally Toxic. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Negligible irritation to skin at ambient temperatures. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Eye</strong></td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>May cause mild, short-lasting discomfort to eyes. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Sensitisation</strong></td>
<td></td>
</tr>
<tr>
<td>Respiratory Sensitization:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to be a respiratory sensitizer.</td>
</tr>
<tr>
<td>Skin Sensitization:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to be a skin sensitizer. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Aspiration</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.</td>
</tr>
<tr>
<td><strong>Germ Cell Mutagenicity</strong></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to be a germ cell mutagen. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to cause cancer. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to be a reproductive toxicant. Based on chemical structure (polymers).</td>
</tr>
<tr>
<td><strong>Lactation</strong></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to cause harm to breast-fed children.</td>
</tr>
<tr>
<td><strong>Specific Target Organ Toxicity (STOT)</strong></td>
<td>No end point data for material.</td>
</tr>
<tr>
<td>Single Exposure:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to cause organ damage from a single exposure.</td>
</tr>
<tr>
<td>Repeated Exposure:</td>
<td>No end point data for material.</td>
</tr>
<tr>
<td></td>
<td>Not expected to cause organ damage from prolonged or repeated exposure. Based on chemical structure (polymers).</td>
</tr>
</tbody>
</table>

### TOXICITY FOR SUBSTANCES

<table>
<thead>
<tr>
<th>NAME</th>
<th>ACUTE TOXICITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL</td>
<td>Oral Lethality: LD 50 0.89 g/kg (Rat)</td>
</tr>
</tbody>
</table>

### OTHER INFORMATION

For the product itself:

- Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes and respiratory tract.
- Dust may be irritating to eyes and respiratory tract.
- Contains:
Additives that are encapsulated in the polymer. Under the normal conditions for processing and use of this polymer, the encapsulated additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure (see Section 8 - Engineering Controls).

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

12.1. TOXICITY
   Material -- Not expected to be harmful to aquatic organisms.
   Material -- Not expected to be harmful to terrestrial organisms.

12.2. PERSISTENCE AND DEGRADABILITY
   Biodegradation:
   Material -- Expected to be persistent.
   Hydrolysis:
   Material -- Transformation due to hydrolysis not expected to be significant.
   Photolysis:
   Material -- Transformation due to photolysis not expected to be significant.
   Atmospheric Oxidation:
   Material -- Transformation due to atmospheric oxidation not expected to be significant.

12.3. BIOACCUMULATIVE POTENTIAL
   Material -- Potential to bioaccumulate is low.

12.4. MOBILITY IN SOIL
   Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)
   This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6. OTHER ADVERSE EFFECTS
   No adverse effects are expected.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
13.1. WASTE TREATMENT METHODS
Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

REGULATORY DISPOSAL INFORMATION

European Waste Code: 07 02 99

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the the waste and its contaminants in order to assign the proper waste disposal code(s).

SECTION 14 TRANSPORT INFORMATION

LAND (ADR/RID): 14.1-14.6 Not Regulated for Land Transport

INLAND WATERWAYS (ADNR/ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport

SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDG-Code

SEA (MARPOL 73/78 Convention - Annex II):
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not classified according to Annex II

AIR (IATA): 14.1-14.6 Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories: TSCA

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Applicable EU Directives and Regulations:

1907/2006 [...] on the Registration, Evaluation, Authorisation and Restriction of Chemicals [... and
15.2. CHEMICAL SAFETY ASSESSMENT

REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the material.

SECTION 16 OTHER INFORMATION

REFERENCES: Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Not applicable</td>
</tr>
<tr>
<td>N/D</td>
<td>Not determined</td>
</tr>
<tr>
<td>NE</td>
<td>Not established</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compound</td>
</tr>
<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
</tr>
<tr>
<td>AIHA WEEL</td>
<td>American Industrial Hygiene Association Workplace Environmental Exposure Limits</td>
</tr>
<tr>
<td>ASTM</td>
<td>ASTM International, originally known as the American Society for Testing and Materials (ASTM)</td>
</tr>
<tr>
<td>DSL</td>
<td>Domestic Substance List (Canada)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>ENCS</td>
<td>Existing and new Chemical Substances (Japanese inventory)</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
</tr>
<tr>
<td>KECI</td>
<td>Korean Existing Chemicals Inventory</td>
</tr>
<tr>
<td>NDSL</td>
<td>Non-Domestic Substances List (Canada)</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value (American Conference of Governmental Industrial Hygienists)</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act (U.S. inventory)</td>
</tr>
<tr>
<td>UVCB</td>
<td>Substances of Unknown or Variable composition, Complex reaction products or Biological materials</td>
</tr>
<tr>
<td>LC</td>
<td>Lethal Concentration</td>
</tr>
<tr>
<td>LD</td>
<td>Lethal Dose</td>
</tr>
<tr>
<td>LL</td>
<td>Lethal Loading</td>
</tr>
<tr>
<td>EC</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EL</td>
<td>Effective Loading</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observable Effect Concentration</td>
</tr>
<tr>
<td>NOELR</td>
<td>No Observable Effect Loading Rate</td>
</tr>
</tbody>
</table>
KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):
R50/53; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):
Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Revision Changes:
Section 05: Hazardous Combustion Products information was modified.
Section 16: Materials Covered information was modified.
Section 15: REACH Chemical Safety Assessment statement information was modified.
Section 11: Aspiration Test Data information was modified.
Section 09: Viscosity information was modified.
Composition: CAS Number information was added.
Composition: Concentration - Header information was added.
Section 16: RCode Key - Header information was added.
Composition: Concentration Footnote information was added.
Composition: Substance or Complex Substance Name information was added.
Section 16: RCode Key information was added.
Composition: Footnotes information was added.
Composition: Component Table for REACH information was added.
Composition: Component Table information was added.
Composition: EU REACH Registration Number information was added.
Composition: EC# information was added.
Composition: Symbol/Risk Phrase Header information was added.
Section 11 Substance Toxicology table information was added.
Section 11 Substance Name - Header information was added.
Section 11 Acute Toxicity data - Header information was added.
Section 11 Substance Toxicity table - Header information was added.
Composition: Substance or Complex Substance Name information was added.
Composition: CAS Number information was added.
Composition: EC Number - Header information was added.
Composition: EU REACH Registration Number information was added.
Composition: Concentration - Header information was added.
Hazard Identification: Section 3 Footnotes for CLP tables information was added.
Composition: Substances Table(s) - Header - Disclosure information was added.
Section 16: HCode Key information was added.
Section 16: HCode Key - Header information was added.
Composition: Symbol/Risk Phrase Header information was added.
Section 08: Exposure Limit Values - Header information was added.
Section 08: OEL Table - Form Column - Header information was added.
Section 08: OEL Table - Limit Column - Header information was added.
Section 08: OEL Table - Notation Column - Header information was added.
Section 08: OEL Table - Source Column - Header information was added.
Section 08: OEL Table - Substance Name Column - Header information was added.
Section 08: Exposure Limits Table information was added.
Section 08: Exposure Limit Values - Header information was added.
Section 08: Legal Basis information was added.
Composition: No components information was deleted.
Section 15: Section 15 CLP Footnotes information was deleted.
Article 31 statement information was deleted.

THIS SDS COVERS THE FOLLOWING MATERIALS: Butyl rubbers. Names for the individual grades are the base polymer name or the base polymer name and a suffix. | Base polymer: | EXXON BUTYL 065 | EXXON BUTYL 068 | EXXON BUTYL 268 | EXXON BUTYL 268S | EXXON BUTYL 288 | EXXON BUTYL 365 | Suffix: |
BACKBONE | BACKBONE REPRO | OFF-SPEC | S

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DGN: 4408980JGB (1005813)

ANNEX
Annex not required for this material.