

	<b>4444 60</b>	Safety Information Data Sheet
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## Material Safety Data Sheet

Conform to Regulation 1907/2006/EC (REACH), Annex II

### 1) PRODUCT AND PRODUCER IDENTIFICATION

#### 1.1 PRODUCT COMMERCIAL NAMES AND IDENTIFICATION:

4444 60 COMPOUND

#### 1.2 PRODUCT TYPE AND INTENDED USE:

Intermediate product comprising a rubber compound with fillers and additives necessary for subsequent moulding and vulcanisation processes.

#### 1.3 PRODUCER/SUPPLIER COMPANY NAME:

Tovo Gomma SpA Via Campagnola, 49 – 25081 Bedizzole (BS)

Tel.: +39-(0)30-6875-143 Fax: +39-(0)30-6873-661 email: paolo.borboni@tovogomma.com

#### 1.4 FOR SAFETY INFORMATION CONTACT:

Tovo Gomma SpA Via Campagnola, 49 – 25081 Bedizzole (BS)

Tel.: +39-(0)30-6875-143 Fax: +39-(0)30-6873-661 email: paolo.borboni@tovogomma.com

### 2) HAZARD INFORMATION

According to the Directives 1999/45/EC and 67/548/EC and relative amendments, a product is not classified as dangerous in the form it is placed on the market and therefore in the stockage and manipulation proceedings at environment temperature.

In case of fire or during vulcanisation, some dangerous components can be developed because of chemical decompositions and be released through smokes. See also sections 5 and 8.

### 3) COMPOSITION/INGREDIENTS INFORMATION

Contained substances considered as health's dangerous, according to the Directivity 67/548/EC and further adjustments, or for which there are recognised exposition limits:

#### 01) ZINC OXIDE

% in compound 1.07

Symbol N (Dangerous for the environment)

Lim.

CAS N. 1314-13-2

CEE 215-222-5

Hazardous - Caution

R50/53

S60 S61

02) FATTY ACIDS C14-C18 AND C16-C18 UNSATD.

% in compound 0.71

Symbol Xi (Irritant)

Lim.

CAS N. 67701-06-8

CEE 263-129-3

Hazardous - Caution

R36/37/38 R53

S22 S24/25

03) 2-MERCAPTOBENZOTHAZOLE (MBT) 80% IN EPM

% in compound 0.36

Symbol Xi (irritant)N (Dangerous for the environment)

Lim.

CAS N. 149-30-4

CEE 205-736-8

Hazardous - Caution

R43 R50/53

S22 S24 S36/37 S60 S61

04) ZINC DIBUTYL DITHIOCARBAMATE (ZDBC)

% in compound 0.71

Symbol Xi(irritant) N(Dangerous for the environment)

Lim.

CAS N. 136-23-2

CEE 205-232-8

Hazardous - Caution

R36/37/38 R43 R50/53

S24 S37 S60 S61

05) CALCIUM OXIDE

% in compound 3.46

Symbol Xi (irritant)

Lim.

CAS N. 1305-78-8

CEE 215-138-9

Hazardous - Caution

R34 R36/37 R38 R41

S26 S36 S39 S43

06) TETRAMETHYLTHIURAM-DISULFIDE (TMTD) 50% IN NBR

% in compound 0.29

Symbol Xn (Harmful)



4444 60

Lim.

CAS N. 137-26-8

CEE

Hazardous - Caution

R20/22 R36/37 R40 R43

S24/25 S26 S36/ 37

## 4) FIRST AID MEASURES

### 4.1 INHALING:

The product is solid and cannot be inhaled. If fumes are developed due to combustion, take the accident victim into a well-ventilated place. Consult a doctor.

### 4.2 SKIN CONTACT:

No hazards except for individual allergic reactions.

### 4.3 EYE CONTACT:

In case of combustion fumes, wash with running water. If the irritation persists, consult a doctor.

### 4.4 INGESTION:

This product is solid and cannot be swallowed. Any ingestion of small fragments does not trigger effects requiring emergency treatment and causes the problems usually related to swallowing of an insoluble foreign body.

## 5) FIRE FIGHTING MEASURES

### 5.1 GENERAL INFORMATION:

This product is not flammable but it is combustible. If involved in a fire, it generates hazardous combustion products such as CO, CO<sub>2</sub> and volatile organic substances. When fire fighting, protect the respiratory system (breathing equipment, etc.), eyes (protective goggles) and skin (protective clothing).

### 5.2 SUITABLE EXTINGUISHING MATERIALS:

All commonly used materials (water, nebulised water, CO<sub>2</sub>, foam, chemical powder).

### 5.3 UNSUITABLE EXTINGUISHING MATERIALS:

None.

### 5.4 EXPLOSION HAZARD:

None.

### 5.5 PERSONAL PROTECTION EQUIPMENT FOR FIRE FIGHTING PERSONNEL:

In the area affected by the flames, comply with fire fighting regulations and wear suitable PPE (breathing equipment, helmet, protective goggles, fireproof suit, gloves and boots).

## 6) ACCIDENTAL RELEASE MEASURES



Since this product is solid and not powdery or granular, this problem is not applicable.

## 7) HANDLING AND STORAGE

### 7.1 GENERAL INFORMATION:

No special precautions are required.

### 7.2 HANDLING:

Wear rubber gloves to avoid dirt and prevent allergic reactions in sensitive individuals.

### 7.3 ANTI-EXPLOSION PROTECTION:

None.

### 7.4 STORAGE:

Store in a cool place with normal ventilation, away from heat sources.

Since this product is stable, there are no problems relating to incompatibility with other materials.

## 8) EXPOSURE CONTROL AND PERSONAL PROTECTION

### 8.1 RELEASE OF CHEMICALS INTO THE WORKING ENVIRONMENT:

When the press is opened at the end of the vulcanisation process, the product emits fumes which must be collected using suitable extraction systems.

Measurements made in a working environment in which the product is vulcanised at temperatures up to 180°C did not reveal the presence of hazardous substances in vulcanisation fumes.

### 8.2 COMPONENTS AND EXPOSURE LIMITS TO BE MONITORED IN RELATION TO THE WORK PLACE:

No specific checks are considered necessary provided a suitable fume extraction system is installed.

### 8.3 PERSONAL PROTECTION EQUIPMENT (PPE):

- Respiratory protection: not necessary
- Protection for the hands: leather work-gloves to prevent burns and allergic reactions in sensitive individuals
- Eye protection: not necessary
- Protective clothing: normal working clothes

### 8.4 INDUSTRIAL HEALTH MEASURES:

- Do not inhale the fumes produced.
- Avoid prolonged protection with the skin and mucous membranes.
- Wash hands thoroughly before eating or going to the toilet.
- Do not eat, drink or smoke in working environments.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid

Density: 1.10

Odour: weak, characteristic

## 10) STABILITY AND REACTIVITY

### 10.1 HAZARDOUS REACTION PRODUCTS:

The product is stable at ambient temperature and in normal conditions of use.

### 10.2 HAZARDOUS DECOMPOSITION PRODUCTS:

When fiercely heated, this product tends to release volatile organic substances. Thermal decomposition may trigger noxious and irritant gases.

See also point 5.0, Fire Fighting Measures.

## 11) TOXICOLOGICAL INFORMATION

This product is not known to have any toxic or noxious effects in the usual conditions of use.

## 12) ECOLOGICAL INFORMATION

No dangerous effects of any kind are known. Do not dump this product in the environment.

## 13) DISPOSAL INFORMATION

### 13.1 CLASSIFICATION:

Waste of this product is classifiable as non-hazardous special waste.

### 13.2 DISPOSAL INFORMATION:

Do not dump the product in the environment. Dispose of it in an authorised landfill or suitable incinerator.

However, always study the current legislation, bearing in mind that the regulations may vary from region to region.

## 14) TRANSPORT INFORMATION

This product is not hazardous under transport regulations.

## 15) REGULATORY INFORMATION

D.Lgs. 3/2/1997 n. 52 (Classification, package and labelling of dangerous substances).

D.Lgs. 14/3/2003 n. 65 (Classification, package and labelling of dangerous compounds)

D.Lgs. 2/2/2002 n. 25 (Risks derived from chemicals during work)

D.M. Lavoro 26/02/2004 (Limits of professional expositions)

D.M. 28/02/2006 (acknowledgment of Directivity 2004/73/CE, 29° ATP)

Directivity 2006/8/EC (Modification of the directivity 1999/45/CE about dangerous compounds)

Regulation EC n. 1907/2006 (REACH)

Directivity 2001/95/EC Enclosure 6 page 312

“9.3 Alloys, compounds containing polymers and compounds containing elastomers.

The above mentioned compounds classified in conformity with the articles 5, 6 and 7, do not represent a danger for the human nature in case of inhalation, swallow, or in contact with the skin, nor for the aquatic environment in the form they are placed on the market.

These compounds do not require any labelling in conformity with the article 10 or enclosure V, part B.9; anyway all the information which should have appeared on the label must be forwarded to the professional user through a system of information according to the method of the article 14 of the above mentioned directivity."

Directivity 2000/53/EC

The product does not contain compounds from  
cadmium

Lead

Mercury

Hexavalent Chromium

Decabromodiphenyl ether (decaBDE)

Polibromodiphenyl

Polibromodiphenyl ether (poliBDE)

Pentabromodiphenyl ether (pentaBDE)

octabromodiphenyl ether (octaBDE)

O-Toluidin

Perfluorooctane sulfonates (PFOS).

## 16) OTHER INFORMATION

This Safety Data Sheet replaces and annuls any previous editions.

The information in this document is based on the knowledge available to us at the date of drafting. Tovo gamma declines all liability for behaviour on the part of customers (transformers, dealers, etc.) in breach of the specified information, or in case of uses of the product which could not reasonably have been foreseen, or incorrect or improper uses. All people who come into contact with the material, whether professionals or final consumers, must be made aware of the information contained here. All information in this safety data sheet is provided with the aim of describing safety precautions and emergency procedures, and cannot therefore be interpreted as production specifications or quality guarantees.

Under no circumstances does this safety information exempt the user from the obligation to identify the risks and obtain information about and comply with the laws and regulations application to the use and the specific procedures for utilisation of the product.