

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

PA12 Mingamid 12 N P20
PA12 Mingamid 12 S P20
PA12 Mingamid 14 N P40
PA12 Mingamid 14 S P40

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

Thermoplastic molding material

1.3 Details of the supplier of the safety data sheet

Company name

MCAM Symalit AG, Appenzell Branch
Recycling Solutions
Industriestrasse 19, 9050 Appenzell, Switzerland
info@minger.ch

1.4 Emergency telephone number:

Toxikologisches Informationszentrum Schweiz, Tel. +41 44 2515151

2. Hazards identification

2.1 Classification of hazards:

There are no specific hazards out of this product

2.2 Classification of the substance or mixture:

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

This mixture does not contain any dangerous substances according EC No. 2015/830.

This mixture does not contain any dangerous substances according EC No. 1907/2006, article 59, which are market as SVHC in concentrations >0.1%.

Additional information:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

2.3 Other hazards:

MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT and / or IRRITATION

Physical and chemical hazards:

Thermic degradations products may create toxic or acidic products

Degradation products: see chapter 10

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No risks worthy of mention. Please observe the information on the safety data sheet at all times..

3. Composition/information on ingredients

Mixture:

substance	percentage w/w%	CAS.-registry no.:	
Polyamide 11	>80	24937-16-4	
N-Butylbenzenesulfonamide	5-15	3622-84-2	(Y)
Carbon Black	<2	1333-86-4	(*)

The substance(s) marked with a "Y" are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product

(*) only for «S» grades

4. First aid measures**4.1 General information:**

No specific measures needed.

4.2 After inhalation:

Inhalation of fumes from thermic degradation: remove casualty to fresh air, In case of respiratory tract irritation or continuous problems: consult a physician

4.3 After contact with skin:

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

4.4 After contact with eyes:

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist..

4.5 After ingestion:

In case of affliction: consult a physician.

5. Firefighting measures

5.1 Extinguishing media:

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

5.2 Unsuitable extinguishing media:

Not known

5.3 Special hazards arising from the substance or mixture

300 - 350 °C: possible formation of Monomers und Oligomers (white smoke)

Temperatures above 350°C: Thermic degradation. Formation of following toxic and acidic products: carbon monoxide, ammonia, carbonoxide, aminic derivates

Temperatures above 500°C: At ignition carbon oxides, cyanic acid

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Do not breathe dust.

Wear personal protection equipment (refer to section 8).

6.2 Environmental precautions:

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

Take up mechanically.

Disposal in accordance with national regualtions

7. Handling and storage

7.1 Handling

Handling according to regulations concernig granulates (solids)

7.1.1 Precautions for safe handling:

Wear personal protection equipment (refer to section 8).

7.1.2 Advice on protection against fire and explosion:

Usual measures for fire prevention. Dust clouds may present an explosion hazard..

7.1.3 Further information on handling:

Avoid generation of dust. General protection and hygiene measures: refer to chapter 8

7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep away from ignition sources.

7.2.2 Packing materials:

recommended: "Triplex" bags (Paper-Alumina-Polyethylene), "Triplex" bags (Polyethylene-Alumina-Polyethylene)

7.2.3 Hints on joint storage:

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff..

8. Exposure controls/personal protection**8.1 Control parameters****Substances with critical limits****Carbon black**

Source	Date	Type	Value (ppm)	Value (mg/m ³)	Remark
ACGIH (US)	2007	TWA	–	3,5	–

Concentrations, relevant for human (DNEL) or environment (PNEC)

no information necessary.

8.2 Exposure controls**Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. Dilution ventilation is acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment.

Eye / Face Protection

Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

Skin Protection

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection

Avoid breathing processing fumes or vapours. Where airborne exposure is likely, use NIOSH approved respiratory protective equipment appropriate to the material and/or its components and substances released during processing. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitation specification by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full-face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Granules, solid
colour: according labeling
odour: none, weak

pH-Value:	not determined
Changes in the physical state	not determined
Melting point:	175-185°C
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	>450°C
Sustaining combustion:	Not sustaining combustion

Explosive properties	Dust clouds may present an explosion hazard
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Decomposition temperature:	>350°C
Oxidizing properties	none
Vapour pressure:	not determined

Density:	1.02-1.06 g/cm ³
Bulk density:	not determined

Water solubility: not determined
Solubility in other solvents: not determined

Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Flow time: not applicable
Vapour density: not applicable
Evaporation rate: not applicable
Solvent separation test: not applicable
Solvent content: not determined

9.3 other information:

none

10. Stability and reactivity

10.1 Reactivity:

No information available

10.2 Chemical stability:

The product is chemically stable under recommended conditions of storage, use and temperature

10.3 Hazardous decomposition products:

Carbon monoxide, cyanic acid

11. Toxicological information

Information on toxicological effects

Polyamide 11

Single exposure (acute) studies indicate that this material is non-irritating to rabbit skin (4-hr exposure; 0/8). No genetic changes were observed in tests using bacteria.

N,N-Butylbenzenesulfonamide

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 2,050 mg/kg) and moderately toxic at elevated temperatures if inhaled (rat 4-hr approximate lethal concentration 0.385 mg/l when heated to the temperature of 564 deg F). No genetic changes were observed in tests using bacteria.

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

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

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

12. Ecological information**12.1. Toxicity**

The product has not been tested

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

General:

No ecological effect studies have been conducted on this material and no information was found in a search of the scientific literature. Under normal conditions of use the component(s) of this material are contained within the polymer matrix. Although ecological exposure to this material is anticipated to be minimal, the data are summarized below. N,N-Butylbenzenesulfonamide At a concentration of 5 ppm, this material had no effect on bluegill sunfish during a 24-hour static toxicity test. It was reported to cause death or

obvious distress in rainbow trout after 2 hours exposure and in sea lamprey larvae after 14 hours exposure.

13. Disposal considerations

13.1 Disposal / Waste product:

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

Waste disposal number of waste from residues/unused products

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

Waste disposal number of used product

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

14. Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user Refer to section 6-8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not relevant

15. Regulatory information

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

EU regulatory information

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. REACH 1907/2006 Appendix XVII, No (mixture): not relevant

National regulatory information

Water contaminating class (D,A): 1 - slightly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

16. Other information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
Health hazards: Calculation method. Environmental hazards: Calculation method. Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.