

# **Safety Data Sheet**

29 CFR 1910.1200 App D

# PA 4050 GB Powder Natural

Version number: 2.0

# **SECTION 1: Identification**

1.1 Product identifier

Trade name PA 4050 GB Powder Natural

**CAS number** not relevant (mixture)

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

**Relevant identified uses**General use

1.3 Details of the supplier of the safety data sheet

Jabil Inc. Telephone: 612 225-2692

102 N Jonathan Blvd

Chaska, Minnesota, MN 55318

**United States** 

e-mail (competent person) GHS@crc-us.com

1.4 Emergency telephone number

# **Poison center**

Country	Name	Telephone
	CHEMTREC (International)	+1 202-483-7616
United States	CHEMTREC USA	(800) 424-9300

As above or next toxicological information centre.

# **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard state- ment
B.cD	combustible dust	Comb. Dust	cD	OSHA003

For full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

# Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word warning

**Pictograms** Not required.

**Hazard statements** 

**OSHA003** May form combustible dust concentrations in air.

#### 2.3 Other hazards

Dust explosion hazards.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture).

# **3.2 Mixtures** polyamide and additives

#### **SECTION 4: First-aid measures**

## 4.1 Description of first- aid measures

# **General notes**

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

## **Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product away from the skin.

Get immediate medical advice/attention.

#### Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## **Following ingestion**

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

#### Notes for the doctor

None.

# 4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

## 4.3 Indication of any immediate medical attention and special treatment needed

None.

# **SECTION 5: Fire-fighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

water spray, foam, alcohol resistant foam, fire extinguishing powder

# Unsuitable extinguishing media

water jet, carbon dioxide (CO2)

# 5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous decomposition products: Section 10.

Danger of dust explosion.

Deposited combustible dust has considerable explosion potential.

## **Hazardous combustion products**

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), hydrogen cyanide (HCN, prussic acid), gas/ vapor, toxic

# 5.3 Advice for firefighters

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

## Special protective equipment for firefighters

wear self-contained breathing apparatus

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Control of dust.

Eliminate all ignition sources if safe to do so.

Do not breathe dust.

Avoid contact with skin and eyes.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

## For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

# 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

## 6.3 Methods and material for containment and cleaning up

## Advice on how to contain a spill

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.

Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid contact with eyes.

# Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Only vacuum cleaners containing no ignition sources may be used for combustible dusts.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

## Specific notes/details

Layers, deposits and heaps of combustible dust must be considered, like any other source which can form a hazardous explosive atmosphere.

Dust deposits may accumulate on all deposition surfaces in a technical room.

Danger of dust explosion.

# Measures to protect the environment

Avoid release to the environment.

## Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

#### **Explosive atmospheres**

Removal of dust deposits.

Only vacuum cleaners containing no ignition sources may be used for combustible dusts.

#### Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

# **Incompatible substances or mixtures**

Incompatible materials: see section 10.

#### Protect against external exposure, such as

heat, humidity, direct light irradiation, sunlight

#### **Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

#### **Ventilation requirements**

Provision of sufficient ventilation.

# Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

Store in a dry place.

#### **Packaging compatibilities**

Keep only in original container.

# 7.3 Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational exposure limit values (Workplace Exposure Limits)**

Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source
US	Particulates not otherwise regu- lated		PEL (CA)		10			dust	Cal/OSHA PEL
US	Particulates not otherwise regu- lated		PEL (CA)		5			r	Cal/OSHA PEL
US	particulates not otherwise classi- fied		REL					аррх-D	NIOSH REL
US	particulates not otherwise classi- fied (PNOC)		PEL	1,766	15			i, dust	29 CFR 1910.1000
US	particulates not otherwise classi- fied (PNOC)		PEL	529.5	5			partml, r, dust	29 CFR 1910.1000

#### **Notation**

appx-D see Appendix D - Substances with No Established RELs

dust as dust

i inhalable fractionpartml particles/mlr respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of

8 hours time-weighted average (unless otherwise specified

# 8.2 Exposure controls

## **Appropriate engineering controls**

General ventilation.

Individual protection measures (personal protective equipment)

#### **Eye/face protection**

Wear eye/face protection.

## **Hand protection**

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Use heat resistant gloves when handling hot / molten product.

#### Other protection measures

Wear heat-resistant protective clothing when handling hot/molten product.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

P2 (filters at least 94 % of airborne particles, color code: White).

## **Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

## **Appearance**

Physical state solid

Form powder

Color whitish

Odor odorless

Odor threshold these information are not available

## Other safety parameters

pH (value) these information are not available

Melting point/freezing point ~180 – 730 °C

Initial boiling point and boiling range these information are not available

Flash point not applicable

Evaporation rate these information are not available

Flammability (solid, gas) this material is combustible, but will not ignite

readily

Explosion limits of dust clouds not determined

Vapor pressure these information are not available

Density these information are not available

Vapor density these information are not available

Relative density these information are not available

Solubility(ies)

Water solubility not miscible in any proportion

**Partition coefficient** 

n-octanol/water (log KOW) these information are not available

Auto-ignition temperature not relevant

(Solid matter)

Decomposition temperature these information are not available

Viscosity

Kinematic viscosity not relevant

(solid matter)

Dynamic viscosity not relevant

(solid matter)

Explosive properties dust explosion hazards

Oxidizing properties shall not be classified as oxidizing

# 9.2 Other information

None

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

## 10.2 Chemical stability

See below "Conditions to avoid".

# 10.3 Possibility of hazardous reactions

Danger of dust explosion.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

#### 10.5 Incompatible materials

oxidizers

# 10.6 Hazardous decomposition products

Pyrolysis products, toxic.

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Classification procedure**

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### **Acute toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Serious eye damage/eye irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Respiratory or skin sensitization

#### Skin sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Respiratory sensitization**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

## **IARC Monographs**

None of the ingredients are listed.

## **National Toxicology Program (United States)**

None of the ingredients are listed.

#### **OSHA Carcinogens**

None of the ingredients are listed.

#### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

# **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

# 12.2 Persistence and degradability

## **Biodegradation**

Data are not available.

#### **Persistence**

Data are not available.

# 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

## 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Other adverse effects

Data are not available.

#### **Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 2

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

## Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	-

# 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

Not subject to transport regulations.

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations specific for the product in question

**National regulations (United States)** 

Superfund Amendment and Reauthorization Act (SARA TITLE III )

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

**Specific Toxic Chemical Listings (EPCRA Section 313)** 

none of the ingredients are listed

# Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

## **Clean Air Act**

none of the ingredients are listed

# **Right to Know Hazardous Substance List**

# **Hazardous Substance List (NJ-RTK)**

none of the ingredients are listed

# California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

# Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	0	no significant risk to health
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

# SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2019-10-17 Date of last revision: 2020-05-13.

# **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations		
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazard- ous Substances (permissible exposure limits)		
49 CFR US DOT	49 CFR U.S. Department of Transportation		
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
IARC Mono- graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
IMDG	International Maritime Dangerous Goods Code		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")		
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)		
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition		
OSHA	Occupational Safety and Health Administration (United States)		
PBT	Persistent, Bioaccumulative and Toxic		
PEL	Permissible exposure limit		
ppm	Parts per million		
STEL	Short-term exposure limit		
TWA	Time-weighted average		
vPvB	Very Persistent and very Bioaccumulative		

# Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## **Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# List of relevant phrases (code and full text as stated in chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)			
Code Text			
OSHA003 May form combustible dust concentrations in air.			

# Responsible for the safety data sheet

Chemical Regulatory Compliance Company
Chicago, IL
USA
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e-Mail: GHS@crc-us.com
Website: www.crc-us.com

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