Material Safety Data Sheet

PALLADIUM CALCIUM CARBONATE 10% pd (RXSOL-60-6605-166)

1. Product and Company Identifaction

Product Name	PALLADIUM CALCIUM CARBONATE 10% pd
Part Number	RXSOL-60-6605-166

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone	+91 22 20871200 - 1400
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web site	

2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
PALLADIUM CALCIUM CARBONATE 10% pd	7440-05-3	231-115-6	270.55

3. Hazards Identification

Signal Word	Warning
Classification of the substance or mixture	Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 For the full text of the H-Statements mentioned in this Section, see Section 16.
Hazard Statements	H315 Causes skin irritation. H319 Causes serious eye irritation
P280 Wear protective gloves.P305 + P351 + P338	NA
Precautionary statements - response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Response	None
Disposal	NA
Prevention	NA
Supplemental Hazard Statements	None
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

General advice	Consult a physician. Show this material safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
swallowed	NA
Skin Contact	Wash off with soap and plenty of water. Consult a physician
Inhalation:	NA
Ingestion:	NA
Notes to Physician	NA
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Flammability	NA
Flash Point	NA
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable extinguishing media	NA
Special hazards arising from the substance or mixture	Calcium oxide
Further information	Use water spray to cool unopened containers.
Hazardous combustion products	NA
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Protective Equipment	NA
Specific Hazards Arising from the Chemical	NA

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Spillage	NA
Personal Protection	NA
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Advice on protection against fire and explosion	Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2.
Precautions for safe handling	Advice on safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols

Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas.
Storage conditions	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas.
Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Handling	NA
Advice on general occupational hygiene	Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

8. Exposure controls and personal protection

Occupational Exposure limit values	No data available
Biological limit values	No data available
Exposure controls	NA
Engineering Control	NA
Eye/face protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection	Impervious clothing, Flame retardant antistatic protective clothing., The type o protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and Aldrich- 76030 Page 5 of 12 The life science business of Merck operates as MilliporeSigma in the US and Canada approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Other Protection Measure	NA
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Thermal hazards	No data available



Gloves



Suit

9. Physical and chemical properties

Physical state	Powder
Colour	Gray
Odour	Odorless
Odor Threshold	Not Applicable
pH	Not Applicable
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	Not Applicable
Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2.

Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No Data Available
Density	No data available
Vapour Density	No Data Available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	None
Solubility	DMSO (Slightly), Water (Slightly)
Ignition temperature	No information available.
Particle characteristics	No data available
Other safety information	No data available

10. Stability and reactivity

Reactivity	No data available
Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	No data available
Hazardous Polymerization	In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - female - > 2.000 mg/kg (calcium carbonate) (OECD Test Guideline 420) LC50 Inhalation - Rat - male and female - 4 h - > 3 mg/l - aerosol (calcium carbonate) (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (calcium carbonate) (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - reconstructed human epidermis (RhE) (calcium carbonate) Result: No skin irritation - 15 min (OECD Test Guideline 439)
Serious eye damage/eye irritation	Eyes - Bovine cornea (calcium carbonate) Result: No eye irritation - 4 h (OECD Test Guideline 437)
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse (calcium carbonate) Result: negative (OECD Test Guideline 429)
Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	NA
Toxic Effects on Human	NA
Germ cell mutagenicity	Test Type: Ames test (calcium carbonate) Test system: Escherichia coli/Salmonella Typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. (calcium carbonate) Test system: Human lymphocytes Metabolic activation: with And without metabolic activation Method: OECD Test Guideline 473 Result: Negative Test Type: In vitro mammalian cell gene mutation test (calcium Carbonate) Test system: mouse lymphoma cells Metabolic activation: with and Without metabolic activation Method: OECD Test Guideline 476 Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxi Effects on Humans:	NA
Additional Information	Endocrine disrupting properties

Assessment	The substance/mixture does not contain components considered to have endocrine Disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 48 Days - NOAEL (No observed adverse effect level) - 1.000 mg/kg (calcium carbonate) To The best of our knowledge, the chemical, physical, and toxicological properties Have not been thoroughly investigated. (calcium carbonate) Hazardous properties Cannot be excluded but are unlikely when the product is handled appropriately. (calcium carbonate) Handle in accordance with good industrial hygiene and safety Practice.(calcium carbonate)
Endocrine disrupting properties	Product: Assessment : The substance/mixture does not contain components Considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 48 Days - NOAEL (No observed adverse effect level) - 1.000 mg/kg (calcium carbonate) To the best of our knowledge, the chemical, Physical, and toxicological properties have not been thoroughly investigated. (Calcium carbonate) Hazardous properties cannot be excluded but are unlikely When the product is handled appropriately. (calcium carbonate) Handle in Accordance with good industrial hygiene and safety practice.

12. Ecological information

Persistence and degradability	No data available
Toxicity	Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (calcium carbonate) (OECD Test Guideline 203) Toxicity to Daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (calcium carbonate) (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 72 h (calcium carbonate) (OECD Test Guideline 201) Toxicity to Bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (calcium Carbonate) (OECD Test Guideline 209)
Bioaccumulative potential	Bioaccumulation is unlikely.
Toxicity to fish	Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 H (calcium carbonate) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (calcium Carbonate) (OECD Test Guideline 202)
Toxicity to algae	Static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 72 h (Calcium carbonate) (OECD Test Guideline 201)
Eco Toxicity	Not Available
COD and BOD 5	Not Available
Products Biodegradation:	NA.
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have Endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Assessment	The substance/mixture does not contain components considered to have Endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No ecological problems are to be expected when the product is handled and Used with due care and attention.

13. Disposal considerations

Disposal methods	NA
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	Product Burn in a chemical incinerator equipped with an afterburner and scrubber but Exert extra care in igniting as this material is highly flammable. Offer surplus and non-Recyclabl solutions to a licensed disposal company.

14. Transport information

UN number	ADR/RID: - NO IMDG: - NO IATA: - NO
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: - NO IMDG: - NO IATA: - NO
Packaging group	ADR/RID: - NO IMDG: - NO IATA: - NO
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.
Transport in bulk according to IMOinstruments	No data available
Further information	Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
DSCL (EEC)	NA
Other regulations	NA
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.