SAFETY DATA SHEET

1. Identification

Product identifier **Rapid Set Light**

Other means of identification

Product code

Recommended use Industrial use.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Company name CTS Cement Manufacturing Corporation

Address 12442 Knott Street
Garden Grove, CA 92841
United States

Telephone 1-800-929-3030

E-mail info@ctscement.com

Contact person Safety Officer

Emergency telephone number 1-800-929-3030 (8 AM - 5 PM)

2. Hazard(s) identification

Physical hazards Not classified.

Health Hazards Carcinogenicity Category 2

OSHA defined hazards

Not classified.

Label elements

Signal word Warning

Hazard statement Suspected of causing cancer

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

Storage Keep container tightly closed. Store in dry location. Store away from incompatible materials described in section 10.

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

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures Chemical name	CAS number	%
Titanium Dioxide	13463-67-7	60-100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation If material is inhaled, remove the affected person immediately from area. Call a physician if symptoms develop or persist. If breathing difficult, give oxygen.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15-20 minutes. Eyelids to be held apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Immediately rinse mouth. Do not induce vomiting unless told to by a poison control center or doctor. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms/effects, acute and delayed May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation. Coughing. Shortness of breath. Wheezing. Skin irritation.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Not combustible, if there is a fire use appropriate media for surrounding fire conditions.

Unsuitable extinguishing media Water

Specific hazards arising from the chemical Not combustible. Decomposes on heating emitting carbon oxides or other toxic vapors. During fire, gases hazardous to health may be formed. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

Special protective equipment and precautions for firefighters Use NIOSH-approved respiratory protection/breathing apparatus.

Fire fighting equipment/instructions Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of material. Avoid skin contact. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use spark proof tools and explosion proof equipment. For personal protection, see section 8 of the SDS. Protect from heat.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains or water courses.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe in material. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in cool, dry location. Store away from incompatible materials (see Section 10 of the SDS). Keep away from ignition sources, heat or flame. Protect from direct sunlight. Store away from food. Store away from oxidizing agents.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Titanium Dioxide (CAS 13463-67-7)	TWA	15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) should be monitored and controlled.
Appropriate engineering controls	Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses or safety goggles unless full face respirator is in use.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. 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. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.
Color	White
Odor	Odorless
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	1855 C
Initial boiling point and boiling range	2900 C
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non combustible.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.

Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	3.84-4.26
Solubility(ies)	
Solubility (water)	Not determined
Partition coefficient (n-octanol/water)	
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Bulk density	Not applicable.
Partition coefficient (oil/water)	Not applicable.
VOC (Weight %)	Not Tested.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Absorbs moisture or water from surrounding air.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Avoid exposure to moisture. Avoid dust generation.
Incompatible materials	Air, water, strong bases.
Hazardous decomposition products	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.
Skin contact	May cause skin irritation.
Eye contact	May cause severe eye irritation. Contamination of eyes can results in permanent injury.
Ingestion	Swallowing may cause nausea, vomiting, diarrhea, and gastrointestinal irritation.
Symptoms related to the physical, chemical and toxicological characteristics	May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

Components	Species	Test Results
Oral		
Titanium Dioxide	Rat LD50	>10000 mg/kg
Eye		
Titanium Dioxide	Rabbit LD50	>10000 mg/kg 24 hr

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	May cause eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	May cause respiratory irritation and sensitization.
Skin sensitization	Will not occur.
Germ cell mutagenicity	Hamster lungs DNA inhibition. Hamster ovary sister chromatid exchange.
Carcinogenicity	Occupational exposure to respirable dust should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity
Group 2B – Possibly carcinogenic to humans

12. Ecological information

Ecotoxicity	Fish: LC50 – other fish - >1000 mg/l – 96 h Invertebrates: EC50 – Daphnia magna (Water flea) - > 1000 mg/l – 48 h
Persistence and degradability	Readily degradable in the environment.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

All ingredients are listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	% by wt.

SARA 311/312 Hazardous chemical Yes, Acute, Chronic

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Chemical name	CAS number	% by wt.

US. New Jersey Worker and Community Right-to-Know Act

Chemical name	CAS number	% by wt.

US. Pennsylvania Worker and Community Right-to-Know Law

Chemical name	CAS number	% by wt.

US. Rhode Island RTK

Chemical name	CAS number	% by wt.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

⚠ WARNING

CANCER and REPRODUCTIVE HARM - www.P65Warnings.ca.gov

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 10-February-2018

Revision date -

Version # 02

HMIS® ratings
Health: 1
Flammability: 0
Physical hazard: 0

Disclaimer CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.