

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

SECTION 1: Identification

Product identifier

Product name Molybdenum 60 - Reagent C

Product number R-8028C

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

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Emergency phone: (800) 837-8548

SECTION 2: Hazard(s) identification

Physical hazardsOxidizing liquidsCategory 2Health hazardsEye damage/irritationCategory 2ASkin corrosion/irritationCategory 2

No data available

Environmental hazards

Label elements

Hazard pictograms



Signal word Danger

Hazard statements May intensify fire; oxidizer. Causes serious eye irritation. Causes skin irritation.

Precautionary statements

Prevention Keep/store away from clothing, combustible material, and organics. Take any precautions to avoid

mixing with combustibles and organics. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur. Wash skin thoroughly after handling.

Response IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical

advice/attention. Take off all contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention. IN CASE OF FIRE:

Use carbon dioxide, dry chemical powder, foam, or water fog to extinguish.

Storage Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up.

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

Hazards not otherwise

classified

No data available

SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	95–99
Potassium persulfate	Potassium peroxydisulfate	7727-21-1	0.1–5

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

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In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

In case of eve contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

If swallowed

Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting measures

Extinguishing media

Unsuitable extinguishing Do not use a heavy water stream. Use of heavy stream of water may spread fire. Do not use

media carbon dioxides or other smother agents, as they may be ineffective in tires involving oxidizers.

Specific hazards arising from the substance or mixture

Fire hazard May intensify fire; oxidizer.

Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion Potassium oxides, nitrogen oxides, and sulfur oxides

products

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Ventilate the contaminated area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up. Store away from incompatible materials (refer to section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits No occupational exposure limits noted for the ingredient(s)

Biological limit values No biological exposure limits noted for the ingredient(s)

Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. 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. Eyewash facilities

and emergency shower must be available when handling this product.

Personal protective

equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless

Odor Odorless

Odor threshold No data available pΗ No data available Evaporation rate No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available

Vapor pressure 17 mm Hg

Relative vapor density 0.6

Solubility Soluble in all proportions

Partition coefficient (n-octanol/water)

No data available

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Combustible material, metal powders, organics, and reducing agents

SECTION 11: Toxicological information

Information on toxicological

effects

Inhalation May cause irritation to the respiratory system

Skin contact Causes skin irritation

Eve contact Causes serious eye irritation

May cause irritation, nausea, vomiting, and diarrhea Ingestion

Most important

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and

symptoms/effects, acute and

delayed

itching.

Direct eye contact may cause serious irritation. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing

difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient acute

toxicity data.

Components **Species Test Results**

Potassium persulfate (CAS 7727-21-1)

Acute

Oral

 LD_{50} Rat 802 mg/kg

Respiratory or skin

sensitization

No data available

Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity No data available

(single exposure)

Specific target organ toxicity No data available (repeated exposure)

No data available Aspiration hazard

SECTION 12: Ecological information

This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT

UN number

UN proper shipping name Oxidizing liquid, N.O.S. (Potassium peroxymonosulfate)

Transport hazard class(es)

Class 5.1 Subsidiary risk Not listed Label(s) 5.1 Packing group

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Special provisions 127, A2, IB2

Packaging exceptions 152 Packaging, non-bulk 203 Packaging, bulk 241

IATA

UN number UN3139

UN proper shipping name Oxidizing liquid, N.O.S. (Potassium peroxymonosulfate)

Transport hazard class(es)

Class 5.1
Subsidiary risk Not listed
Packing group III
Environmental hazards Not listed

ERG code 5L

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Other information

Passenger and cargo Allo

aircraft

Cargo aircraft only Allowed

IMDG

UN number UN3139

UN proper shipping name Oxidizing liquid, N.O.S. (Potassium peroxymonosulfate)

Transport hazard class(es)

Class 5.1

Subsidiary risk Not listed

Packing group III

Environmental hazards

Marine pollutant Not listed EmS F-A, S-Q

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

DOT

OXIDIZER 5.1

IATA; IMDG



SECTION 15: Regulatory information

U.S. federal regulations

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

SARA 311/312 Hazardous Chemical

Potassium persulfate (CAS 7727-21-1)

U.S. state regulations

Massachusetts Right-to-Know Act

Potassium persulfate (CAS 7727-21-1)

New Jersey Worker and Community Right-to-Know Act

Potassium persulfate (CAS 7727-21-1)

Pennsylvania Worker and Community Right-to-Know Act

Potassium persulfate (CAS 7727-21-1)

Rhode Island Right-to-Know Act

Potassium persulfate (CAS 7727-21-1)

SECTION 16: Other information

Health hazard 1
Fire hazard 0
Reactivity 0
Specific OX

Disclaimer

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