

## 1. Product and Company Identification

www.rxmarine.com

Product Name TRO Calibration Kit

Part Number RXSOL-62-6255-001

Company Details:

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

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Website[www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight
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Sodium Citrate	68-04-2200-675-3	<=15	
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Potassium Iodide	7681-11-0231-659-4	<=10	
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EDTA disodium salt	6381-92-6205-358-3	<=1	
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water	7732-18-5231-791-2	>=75	
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## 3. Hazards Identification

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Signal Word Warning

Hazard StatementsH315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

Classification of the substance or mixtureNo data available

Supplemental Hazard StatementsNo data available

Other hazards No data available

## 4. First Aid Measures

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General adviceFirst aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaledIf fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Eye Contact Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel

Swallowed Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation No data available

Ingestion No data available

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 Treat symptomatically.

## 5. Fire-fighting Measures

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Flammability No data available

Extinguishing media The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas. Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: foam, dry chemical powder, carbon dioxide.

Further information No data available

Hazardous combustion

products Decomposes on heating and produces toxic fumes of: , carbon dioxide (CO<sub>2</sub>) , hydrogen iodide , other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

Advice for firefighters Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Protective Equipment No data available

Specific Hazards Arising from the Chemical No data available

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe gas. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Spillage No data available

Personal Protection No data available

Environmental Precaution See section 12

Methods and materials for

containment and cleaning Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. Major Spills Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so.

Reference to other sections Personal Protective Equipment advice is contained in Section 8

## 7. Handling and Storage

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Advice on protection against fire and explosion No data available

Incompatible materials No data available

Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

Advice on safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. **DO NOT** enter confined spaces until atmosphere has been checked. **DO NOT** allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. **DO NOT** allow clothing wet with material to stay in contact with skin

Conditions for safe storage including any incompatibilities

Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

Storage class No data available

Specific end use(s) See section 1.2

Advice on general occupational hygiene No data available

## 8. Exposure controls and personal protection

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Exposure controls Personal protective equipment

Engineering Control Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

Eye/face protection Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.

Body Protection Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Skin protection Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber **NOTE:** The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Respiratory protection

Required when vapours/mists are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Other Protection Measure No data available

## 9. Physical and chemical properties

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Physical state Liquid

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ColourLight Yellow

OdourNo data available

Odor ThresholdNo data available

pH13-14

Melting PointNo data available

Boiling PointNo data available

Flash PointNo data available

Evaporation RateNo data available

Flammability (solid, gas)No data available

Explosive limitsNo data Available

Upper/lower flammability or explosive limitsNo data available

Autoignition temperatureNo data available

Decomposition temperature No data available

Vapour pressureNo data available

ViscosityNo data available

Density1.1

Relative DensityNo data available

Specific GravityNo data available

Partition coefficientNo data available

Explosive propertiesNo data available

SolubilityNo data available

Ignition temperatureNo data available

Particle characteristicsNo data available

## 10. Stability and reactivity

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Reactivity No data available

Chemical stabilityUnstable in the presence of incompatible materials. Product is considered stable.

Possibilityof hazardous reactionsNo data available

Conditions to avoidNo data available

Incompatible materials

No data available

Hazardous decomposition productsIn the event of fire: see section 5

## 11. Toxicological information

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Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Respiratory or skin sensitization No data available

Carcinogenicity No data available

Germ cell mutagenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure

No data available

Additional Information No data available

## 12. Ecological information

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Persistence and degradability water LOW LOW potassium iodide HIGH HIGH EDTA disodium salt LOW LOW

Toxicity to fish No data available

Toxicity to daphnia and other aquatic invertebrates No data available

Toxicity EC<sub>50</sub>(EC<sub>x</sub>) 48h Crustacea >50mg/l 2 EC<sub>50</sub> 48h Crustacea >50mg/l 2 EC<sub>50</sub> 96h Algae or other aquatic plants >18000-32000mg/l 1  
potassium iodide Endpoint Test Duration (hr) Species Value Source EC<sub>50</sub>(EC<sub>x</sub>) 48h Crustacea 1.27mg/l 2 LC<sub>50</sub> 96h Fish >100mg/l 2 EC<sub>50</sub> 48h  
Crustacea 1.27mg/l 2 EDTA disodium salt Endpoint Test Duration (hr) Species Value Source NOEC(EC<sub>x</sub>) 72h Algae or other aquatic plants 0.39mg/l  
2 LC<sub>50</sub> 96h Fish 41mg/l 2 EC<sub>50</sub> 72h Algae or other aquatic plants 2.77mg/l 2 EC<sub>50</sub> 48h Crustacea 140mg/l 2

Toxicity to bacteria No data available

Toxicity to algae No data available

Bioaccumulation potential potassium iodide LOW (LogK<sub>OW</sub> = 0.0436) EDTA disodium salt LOW (LogK<sub>OW</sub> = -3.8573)

Mobility in soil potassium iodide LOW (K<sub>OC</sub> = 14.3) EDTA disodium salt LOW (K<sub>OC</sub> = 1046)

Results of PBT and vPvB assessment No data available

Endocrine disrupting properties No data available.

Other adverse effects No data available

## 13. Disposal considerations

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Product Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails)

Packaging disposal This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical

and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Waste treatment MethodNo data available

## 14. Transport information

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UN numberADR/RID:IMDG:

IATA:

UN proper shipping name ADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods

Transport hazard class(es) ADR/RID:IMDG: IATA:

Packaging groupADR/RID:- IMDG:-IATA:-

Environmental hazardsADR/RID:No IMDG:No IATA:No

Special precautions for user No data available

Further informationNo data available

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

Safety, health and environmental regulations/legislation specific for the substance or mixtureThis material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulationsNo data available

Chemical Safety AssessmentA Chemical Safety Assessment was not carried out for this substance.

## 16. Other information

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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 we assume 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 we 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.

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