Material Safety Data Sheet

Solvent Cleaner CITRO 2000 (RXSOL-41-8791-220)

1. Product and Company Identifaction

Product Name	: Solvent Cleaner CITRO 2000
Part Number	: RXSOL-41-8791-220

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

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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC No	Wt.%	Symbol
Naptha (Hydrotreated Heavy Petroleum)	64742-48-9	None	90 - 100%	NA
D-limonene	5989-27-5	227-813-5	05 - 10%	NA

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects
Precautionary statements - prevention	P273 - Avoid release to the environment P280 - Wear protective gloves and eye/face protection P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P233 - Keep container tightly closed P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P391 - Collect spillage P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable P337 + P313 - If eye irritation persists: Get medical advice/attention P264 - Wash face, hands and any exposed skin thoroughly after handling P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get immediate medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists.
Inhalation:	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed, call a poison control center or doctor immediately. Do NOT induce vomiting. If conscious, drink plenty of water.
General Advice	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective Equipment	Use personal protective equipment.
Hazardous combustion products	Thermal decomposition can lead to release of irritating gases and vapors Carbon oxides (COx), Nitrogen oxides (NOx).
Advice for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.Containers close to fire should be removed immediately or cooled with water. Hazchem code ADG

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective equipment.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

7. Handling and Storage

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin or on clothing. Avoid spills and splashing during use.

Storage	Technical measures/precautions Ensure adequate ventilation. Keep airborne concentrations below exposure limits. Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place Avoid contact with: Strong oxidizing agents Storage class Chemical storage.
Advice on general occupational hygiene	Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands before eating, drinking or smoking Remove contaminated clothing

8. Exposure controls and personal protection

Component Information

Inredieant	Form	Limit / Standard			Note	Remarks
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	Vapor.	RCP - TWA	1200 mg/m3	171 ppm	Total Hydrocarbons	
D-Limonene	Vapor	WEEL	165.5 mg/m3	30 ppm	Citrus	time weighted average

Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

Personal Protection:

Eye protection : Wear eye protection/ face protection.
Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection : If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Apperance	Clear, Colourless
Odour	Citrus
Odor threshold	Not applicable
Flash Point	68 °C
Boiling Point	185 °C
Freezing Point	0 °C
pH	NA
Evaporation rate	0.1
Flammable Limits	
Upper explosion limit	UEL: 5.3
Lower explosion limit	LEL: 0.7
Autoignition Temperature	335°C (635°F)

Vapor pressure	0.5 kPa (0.48 mm Hg) at 20 C
Vapor density	No information available
Specific gravity	0.768 @ 20 °C
Relative density	0.80 @ 20°C.
Water solubility	Negligible
Viscosity	No data available
Partition coefficient: octanol	No data available
Pour Point :	-57°C (-71°F)
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and reactivity

Recativity	No specific reactivity hazards associated with this product.
Stability	Stable under normal conditions and recommended use.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Avoid to contact with oxidizing agents.
Hazardous Decomposition	Thermal decomposition can lead to release of irritating gases and vapors Carbon oxides (COx).
Condition to Avoid	Avoid heat, sparks, open flames and other ignition sources
Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

Acute toxicity

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Unknown acute toxicity	Not applicable.
Toxicology data for the components	Oral LD50: > 5000 mg/kg Dermal TCLo: LC50 > 5000 mg/m3
Sensitization	This product does not contain any components suspected to be sensitizing.
Mutagenic effects	This product does not contain any known or suspected mutagens.
Carcinogenicity	This product does not contain any known or suspected carcinogens
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
Specific target organ toxicity -Single exposure	Not classified
Specific target organ toxicity -Repeated exposure	Not classified
Aspiration hazard	Not applicable.
Other information	Key literature references and sources for data. See Section 16 for more information.

12. Ecological information

Fish Toxicity (rainbow trout, goldfish, bluegill)	LC50(96hr): Based on data for a similar component or preparation, this product is expected to be toxic to aquatic organisms.
Toxicity to alge	Not Available.
Toxicity to daphnia and others	Not Available
Toxicity to Fish (Chronic toxicity)	NOELR: 0.778 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data
Persistence and degradability	This product will evaporate and commence degradation on exposure to light and air.
Bioaccumulative potential	This product will evaporate and commence degradation on exposure to light and air.
Mobility	Medium: Air Method: Calculation, Mackay Level III Fugacity Model Content: 100 %
Results of PBT and vPvB assessment	Not classified as PBT/vPvB by current EU criteria.

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. Transport information

UN Number	Not Regulated
Proper shipping name	The product is not covered by international regulation on the transport of dangerous goods
Transport hazard class(es)	
ADR/RID	Hazard class/division Not regulated
Subsidiary risk IMDG	Hazard class/division Not regulated
Subsidiary risk IATA	Hazard class/division Not regulated
Packing group	
Packing group	Not regulated
Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazchem code	ADG 3Z
Tunnel Category	Not Reguted
IMDG	
EmS Code	Not Reguted
IATA	
Packing Instruction (Cargo)	Not Reguted
Maximum quantity	Not Reguted
Packing Instruction (Passenger)	Not Reguted
Maximum quantity	Not Reguted

15. Regulatory information

US Fedaral Regulations	Toxic Substances Control Act (TSCA): ll ingredients are either listed on the TSCA inventory or are exempt. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): Reportable Quantities (RQ's) exist for the following ingredients: None Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.
Superfund Amendments Reauthorization Act (SARA) Title III:	Section 302 Extremely Hazardous Substances (EHS): None Section 311/312 Hazard Categories: Fire Hazard Yes Reactive Hazard No Release of Pressure No Acute Health Hazard Yes Chronic Health Hazard No Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None
Canadian Regulation	Controlled Products Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Hazard Class: B3 Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.
European Union Regulations:	RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

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 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 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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.