



# COR-BAN 23 BULK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/26/2019

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : COR-BAN 23 BULK

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Corrosion inhibitors

#### 1.3. Supplier

##### Manufacturer

Zip-Chem Products  
400 Jarvis Drive  
Morgan Hill, CA 95037 - United States  
T 408-782-2335 - F 408-782-6304  
[4info@zipchem.com](mailto:4info@zipchem.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|  |  |                       |
|--|--|-----------------------|
| Flammable liquids, Category 3                                  | H226 Flammable liquid and vapour.                                    | On basis of test data |
| Specific target organ toxicity — Repeated exposure, Category 1 | H372 Causes damage to organs through prolonged or repeated exposure. | Expert judgment       |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear eye protection, face protection, protective gloves.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P314 - Get medical advice/attention if you feel unwell.  
P370+P378 - In case of fire: Use alcohol resistant foam, ABC-powder, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | %     | GHS US classification   |
|--|----------------------|-------|---|
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics                | (CAS-No.) 64742-47-8 | 15-35 | Flam. Liq. 4, H227<br>Asp. Tox. 1, H304   |
| STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.                   | (CAS-No.) 64742-88-7 | 10-15 | STOT RE 1, H372<br>Asp. Tox. 1, H304  |
| LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY | (CAS-No.) 64742-48-9 | 2-8   | Flam. Liq. 3, H226<br>Muta. Not classified<br>Carc. Not classified<br>Asp. Tox. 1, H304 |
| naphtha,heavy aromatic   | (CAS-No.) 64742-94-5 | 0-3   | Asp. Tox. 1, H304   |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |
|--|
| <b>COR-BAN 23 BULK</b>   |
| No additional information available  |
| <b>naphtha,heavy aromatic (64742-94-5)</b>   |
| No additional information available  |
| <b>STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)</b>                   |
| No additional information available  |
| <b>LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (64742-48-9)</b> |
| No additional information available  |
| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b>             |
| No additional information available  |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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|   |   |
|---|---|
| Appearance                                      | : Liquid.   |
| Colour  | : Red-brown   |
| Odour   | : Solvent-like odour  |
| Odour threshold                                 | : No data available   |
| pH  | : No data available   |
| Melting point                                   | : Not applicable  |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : > 41 °C   |
| Relative evaporation rate (butylacetate=1)      | : No data available   |
| Flammability (solid, gas)                       | : Not applicable.   |
| Vapour pressure                                 | : 1.2 mm Hg   |
| Relative vapour density at 20 °C                | : No data available   |
| Relative density                                | : No data available   |
| Density   | : 0.87 g/ml   |
| Solubility                                      | : Soluble in aromatic hydrocarbons. Soluble in naphtha. Soluble in petroleum spirit. Substance floats in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Viscosity, kinematic                            | : 20 – 24 mm <sup>2</sup> /s  |
| Viscosity, dynamic                              | : 30 – 46 cP  |
| Explosive limits                                | : No data available   |
| Explosive properties                            | : No data available   |
| Oxidising properties                            | : No data available   |

### 9.2. Other information

|                |             |
|----------------|-------------|
| VOC content    | : 429 g/l   |
| Percent Solids | : 40 – 44 % |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

### STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)

|               |   |
|---------------|---|
| LD50 oral rat | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 420, Rat, Male / female, Experimental value, Oral) |
|---------------|---|

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| <b>STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)</b> |  |
|--|--|
| LD50 dermal rabbit   | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)   |
| LC50 inhalation rat (mg/l)   | > 5.28 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours)) |

| <b>LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (64742-48-9)</b> |                               |
|--|-------------------------------|
| LD50 oral rat  | > 15000 mg/kg (Rat, Oral)     |
| LD50 dermal rabbit   | > 3160 mg/kg (Rabbit, Dermal) |

| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b> |  |
|--|--|
| LD50 dermal rabbit   | > 5000 mg/kg bodyweight (Rabbit, Literature, Dermal) |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

| <b>STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)</b> |   |
|--|---|
| STOT-repeated exposure   | Causes damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified  
Viscosity, kinematic : 20 – 24 mm<sup>2</sup>/s

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

| <b>LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (64742-48-9)</b> |  |
|--|--|
| LC50 fish 1  | 2200 mg/l (96 h, Pimephales promelas, Fresh water) |

| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b> |                           |
|--|---------------------------|
| LC50 fish 1  | > 100 mg/l (Pisces)       |
| EC50 Daphnia 1   | > 100 mg/l (Invertebrata) |

### 12.2. Persistence and degradability

| <b>naphtha,heavy aromatic (64742-94-5)</b> |                                     |
|--|-------------------------------------|
| Persistence and degradability              | Not readily biodegradable in water. |

| <b>STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)</b> |                                 |
|--|---------------------------------|
| Persistence and degradability  | Readily biodegradable in water. |

| <b>LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (64742-48-9)</b> |                                     |
|--|-------------------------------------|
| Persistence and degradability  | Not readily biodegradable in water. |

| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b> |                                 |
|--|---------------------------------|
| Persistence and degradability  | Readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>naphtha,heavy aromatic (64742-94-5)</b>      |               |
|---|---------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 – 6.1     |
| Bioaccumulative potential                       | Bioaccumable. |

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| <b>STRAIGHT RUN Kerosine - Solvent Naphtha (Petroleum), Medium Aliph. (64742-88-7)</b>                   |   |
|--|---|
| Bioaccumulative potential  | No bioaccumulation data available.                |
| <b>LOW BOILING POINT Hydrogen Treated Naphtha - Naphtha (Petroleum), Hydrotreated Heavy (64742-48-9)</b> |   |
| Partition coefficient n-octanol/water (Log Pow)  | 2.1 – 6.5 (Calculated)                            |
| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b>             |   |
| Partition coefficient n-octanol/water (Log Pow)  | 6 – 8.2   |
| Bioaccumulative potential  | High potential for bioaccumulation (Log Kow > 5). |

### 12.4. Mobility in soil

| <b>STRAIGHT RUN Kerosine - Solvent Naphtha (Petroleum), Medium Aliph. (64742-88-7)</b>       |                        |
|--|------------------------|
| Ecology - soil   | Adsorbs into the soil. |
| <b>hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-47-8)</b> |                        |
| Surface tension  | 0.026 N/m (20 °C)      |
| Ecology - soil   | Adsorbs into the soil. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                         |   |
|-------------------------|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information  | : Flammable vapours may accumulate in the container.  |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

|                                |   |
|--------------------------------|---|
| Transport document description | : UN1993 Flammable liquids, n.o.s. (Naphtha), 3, III            |
| UN-No.(DOT)                    | : UN1993  |
| Proper Shipping Name (DOT)     | : Flammable liquids, n.o.s.<br>Naphtha                          |
| Class (DOT)                    | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Packing group (DOT)            | : III - Minor Danger  |
| Hazard labels (DOT)            | : 3 - Flammable liquid  |



|   |       |
|---|-------|
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx)     | : 242 |

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|  |   |
|--|---|
| DOT Special Provisions (49 CFR 172.102)                          | : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.<br>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.<br>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).<br>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.<br>TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L  |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 220 L   |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.   |
| Emergency Response Guide (ERG) Number                            | : 128   |
| Other information  | : No supplementary information available.   |

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

|                                       |  |
|---------------------------------------|--|
| Transport document description (IMDG) | : UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III |
| UN-No. (IMDG)                         | : 1993                                     |
| Proper Shipping Name (IMDG)           | : FLAMMABLE LIQUID, N.O.S.                 |
| Class (IMDG)                          | : 3 - Flammable liquids                    |
| Packing group (IMDG)                  | : III - substances presenting low danger   |
| Limited quantities (IMDG)             | : 5 L                                      |

### Air transport

|                                       |  |
|---------------------------------------|--|
| Transport document description (IATA) | : UN 1993 Flammable liquid, n.o.s., 3, I |
| UN-No. (IATA)                         | : 1993                                   |
| Proper Shipping Name (IATA)           | : Flammable liquid, n.o.s.               |
| Class (IATA)                          | : 3 - Flammable Liquids                  |
| Packing group (IATA)                  | : I - Great Danger                       |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

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### naphtha,heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List)

### STRAIGHT RUN KEROSENE - SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (64742-88-7)

Listed on the Canadian DSL (Domestic Substances List)

### LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (64742-48-9)

Listed on the Canadian DSL (Domestic Substances List)

### hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

## EU-Regulations

### National regulations

#### COR-BAN 23 BULK

One or all of the ingredients in this product are listed on the (AICS) Inventory list

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Full text of H-statements:

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                                    |
| H227 | Combustible liquid  |
| H304 | May be fatal if swallowed and enters airways.                   |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
- Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
- Personal protection : G  
G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*