

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Siebert MRC RN 230

Recommended use of the chemical and restrictions on use

Recommended use : Solvent.

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Central nervous system, Peripheral nervous system)

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

Safety Data Sheet
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Central nervous system, Peripheral nervous system) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. 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 skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
67-64-1	Acetone	20 - 30
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	20 - 30
111-76-2	2-Butoxy ethanol	20 - 30
64-17-5	Ethanol	10 - 20
5989-27-5	d-Limonene	5 - 10
141-78-6	Ethyl acetate	5 - 10
67-63-0	Isopropyl alcohol	1 - 5
111-65-9	**Octane	1 - 5
142-82-5	**Heptane	1 - 5
67-56-1	Methanol	0.1 - 1
108-10-1	Methyl isobutyl ketone	0.1 - 1

Any Concentration shown as a range is due to batch variation.

Special Notes: : ** Other substances in the product which may present a health or environmental hazard.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : 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).

SECTION 7. HANDLING AND STORAGE

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
67-64-1	Acetone	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m ³	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m ³	OSHA Z-1
		TWA	750 ppm 1,800 mg/m ³	OSHA P0
		STEL	1,000 ppm 2,400 mg/m ³	OSHA P0
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, It dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated It AND/OR Solvent naphtha (pet),	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

	It aliph.			
		TWA	400 ppm 1,600 mg/m ³	OSHA P0
111-76-2	2-Butoxy ethanol	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m ³	NIOSH REL
		TWA	50 ppm 240 mg/m ³	OSHA Z-1
		TWA	25 ppm 120 mg/m ³	OSHA P0
64-17-5	Ethanol	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0
		STEL	1,000 ppm	ACGIH
		PEL	1,000 ppm 1,900 mg/m ³	CAL PEL
141-78-6	Ethyl acetate	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m ³	NIOSH REL
		TWA	400 ppm 1,400 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,400 mg/m ³	OSHA P0
67-63-0	Isopropyl alcohol	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
		TWA	400 ppm 980 mg/m ³	OSHA P0
		STEL	500 ppm 1,225 mg/m ³	OSHA P0
111-65-9	**Octane	TWA	300 ppm	ACGIH
		TWA	75 ppm 350 mg/m ³	NIOSH REL
		C	385 ppm 1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,350 mg/m ³	OSHA Z-1
		TWA	300 ppm 1,450 mg/m ³	OSHA P0
		STEL	375 ppm 1,800 mg/m ³	OSHA P0
		TWA	300 ppm	ACGIH
142-82-5	**Heptane	TWA	85 ppm 350 mg/m ³	NIOSH REL

Safety Data Sheet Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

		C	440 ppm 1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,600 mg/m ³	OSHA P0
		STEL	500 ppm 2,000 mg/m ³	OSHA P0
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m ³	NIOSH REL
		ST	250 ppm 325 mg/m ³	NIOSH REL
		TWA	200 ppm 260 mg/m ³	OSHA Z-1
		STEL	250 ppm 325 mg/m ³	OSHA P0
		TWA	200 ppm 260 mg/m ³	OSHA P0
108-10-1	Methyl isobutyl ketone	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m ³	NIOSH REL
		ST	75 ppm 300 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	50 ppm 205 mg/m ³	OSHA P0
		STEL	75 ppm 300 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Safety Data Sheet
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

		Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Clear, Colorless
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash point	:	≥ -20 °C (≥ -4 °F) Method: Tag closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	0.8077 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	:	0.8077 g/cm ³ @ 20 °C (68 °F)
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available

Safety Data Sheet
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Alkali metals
aluminum
Ammonia
Oxidizing agents
strong mineral acids
Peroxides**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 2,822 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Components:**111-76-2:**

Acute oral toxicity : LD50 (Rat): 1,300 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 2.56 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Safety Data Sheet
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

Acute dermal toxicity : LD0 (Guinea pig, male and female): > 2,000 mg/kg
Assessment: The component/mixture is moderately toxic after single contact with skin.

5989-27-5:

Acute oral toxicity : LD50 (Rat): 4,400 mg/kg
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

67-56-1:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.
Remarks: Supporting toxicological evidence is limited for this classification. This harmonized classification will replace the indicated classification due to industry leaders and the EU Harmonized Classification (Annex VII).

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

108-10-1:

Acute inhalation toxicity : LC50 (Rat): 11.6 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Skin corrosion/irritation**Components:****68410-97-9 / 64742-49-0 / 64742-89-8:**

Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

111-76-2:

Result: Irritating to skin.

5989-27-5:

Species: Rabbit
Result: Irritating to skin.

67-63-0:

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

Species: Rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

67-64-1:

Species: Rabbit
Result: Irritating to eyes.
Exposure time: 24 h

111-76-2:

Species: Rabbit
Result: Irritating to eyes.

64-17-5:

Species: Rabbit
Result: Irritating to eyes.

5989-27-5:

Species: Rabbit
Result: No eye irritation

141-78-6:

Species: Rabbit
Result: Irritating to eyes.

67-63-0:

Species: Rabbit
Result: Irritating to eyes.

108-10-1:

Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

5989-27-5:

Test Type: lymph node assay
Species: Mouse
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Germ cell mutagenicity - Assessment : Mutagenicity classification not possible from current data

5989-27-5:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Species: mouse lymphoma cells

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: DNA damage and/or repair
Species: Rat
Cell type: Kidney cells
Application Route: Oral
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

5989-27-5:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC

Group 2B: Possibly carcinogenic to humans

108-10-1

Methyl isobutyl ketone

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

5989-27-5:

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

STOT - single exposure

Components:

67-64-1:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

68410-97-9 / 64742-49-0 / 64742-89-8:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

141-78-6:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-63-0:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-56-1:

Target Organs: Eyes, Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

108-10-1:

Target Organs: Respiratory system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Aspiration toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

May be fatal if swallowed and enters airways.

5989-27-5:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

- | | |
|--|--|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l
Exposure time: 96 h |
| | LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l
Exposure time: 96 h
Test Type: semi-static test |
| | LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: Immobilization |
| Toxicity to algae | : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l
Exposure time: 72 h |
| | EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l
Exposure time: 96 h
Test Type: static test |
| Toxicity to fish (Chronic toxicity) | : NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l
Exposure time: 14 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOELR (Daphnia magna (Water flea)): 2.6 mg/l
Exposure time: 21 d |
| Chronic aquatic toxicity- Assessment | : Toxic to aquatic life with long lasting effects. |
| 5989-27-5: | |
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 0.702 mg/l
Exposure time: 96 h
Test Type: flow-through test |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.36 mg/l
Exposure time: 48 h
Test Type: static test |
| Toxicity to algae | : EC50 (Desmodesmus subspicatus (green algae)): 150 mg/l
Exposure time: 72 h
Test Type: static test |
| M-Factor (Acute aquatic toxicity) | : 1 |

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

- Toxicity to fish (Chronic toxicity) : NOEC: 0.19 mg/l
Exposure time: 8 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.08 mg/l
Exposure time: 21 d
- Acute aquatic toxicity- Assessment : Very toxic to aquatic life.
- Chronic aquatic toxicity- Assessment : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Partition coefficient: n-octanol/water : log Pow: 2.13 - 4.85 (25 °C)

5989-27-5:

Bioaccumulation : Bioconcentration factor (BCF): 908.5

Partition coefficient: n-octanol/water : log Pow: 4.57

log Pow: 4.38 (37 °C)
pH: 7.2

111-65-9:

Partition coefficient: n-octanol/water : log Pow: 5.15

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1993, Flammable liquids, n.o.s., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES), 3, II

IATA (International Air Transport Association):

UN1993, FLAMMABLE LIQUID, N.O.S., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES) , 3, II

IMDG (International Maritime Dangerous Goods):

UN1993, FLAMMABLE LIQUID, N.O.S., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES), 3, II, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES) , Flash Point:>= -20 °C(>= -4 °F)

SECTION 15. REGULATORY INFORMATION

- WHMIS Classification** : B2: Flammable liquid
D2A: Very Toxic Material Causing Other Toxic Effects
D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5000	20000
Ethyl acetate	141-78-6	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitisation
 Specific target organ toxicity (single or repeated exposure)
 Aspiration hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

111-76-2	2-Butoxy ethanol
67-63-0	Isopropyl alcohol

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-64-1	Acetone
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
141-78-6	Ethyl acetate
67-63-0	Isopropyl alcohol

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

108-88-3	**Toluene
100-41-4	**Ethylbenzene
75-07-0	Acetaldehyde
71-43-2	**Benzene
91-20-3	**Naphthalene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

108-88-3	**Toluene
100-41-4	**Ethylbenzene
75-07-0	Acetaldehyde
71-43-2	**Benzene
91-20-3	**Naphthalene

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

67-64-1	Acetone
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
141-78-6	Ethyl acetate
67-63-0	Isopropyl alcohol
111-65-9	**Octane
142-82-5	**Heptane
75-07-0	Acetaldehyde
71-43-2	**Benzene

Safety Data Sheet

Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

Pennsylvania Right To Know

67-64-1	Acetone
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hy- drotreated lt AND/OR Solvent naphtha (pet), lt aliph.
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
5989-27-5	d-Limonene
141-78-6	Ethyl acetate
67-63-0	Isopropyl alcohol
111-65-9	**Octane
142-82-5	**Heptane
67-56-1	Methanol
108-10-1	Methyl isobutyl ketone
108-88-3	**Toluene
100-41-4	**Ethylbenzene
75-07-0	Acetaldehyde

California Prop 65

⚠ WARNING: This product can expose you to chemicals including Methyl isobutyl ketone, **Ethylbenzene, Acetaldehyde, **Benzene, **Naphthalene, which is/are known to the State of California to cause cancer, and Methanol, Methyl isobutyl ketone, **Toluene, **Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

Safety Data Sheet

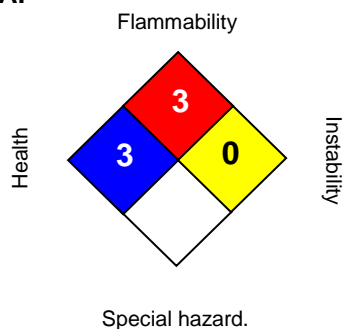
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 09/01/2019

Material number:
 16099603, 16099545

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit

Safety Data Sheet
Siebert MRC RN 230

Version 1.3

Revision Date: 09/01/2019

EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		