

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Sarad Universal 2000 TN

1.2. Relevant identified uses of the substance or mixture and uses advised against

Water-miscible cutting fluid, Cooling lubricant

1.3. Details of the supplier of the safety data sheet

Ertegha Sanat Roshd

Address: Almas Building, Vahdat Industrial Zone, Tabriz, Iran.

Phone: 0098-41-36377782, 0098-41-36373371

Fax: 00098-21-89788090

Website: www.saradchem.ir

Email: sds@saradchem.ir

1.4. Emergency telephone number

0098-914-310-5227

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

2.2. Label elements The product does not have to be labelled due to the calculation procedure of international

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable.

3.2. Mixtures This material is defined as a mixture.

Description: Mixture of mineral oils, emulsifiers, and inhibitors, triethanol amine, fatty acids

Declarable components:

CAS no.

8012-95-1 Mineral oil, severely hydrotreated, 60-70%

61790-44-1 Emulsifier, anionic 5.0-15%

8012-95-1 Sodium petroleum sulfonate 5.0-15%

112-80-1 Fatty acid 5.0-11%

111-60-4 Ester Compounds 5.0-15%

102-71-6 Triethanol amine

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: *No special measures required.*

After inhalation: *Supply fresh air; consult doctor in case of complaints.*

After skin contact: *Generally the product does not irritate the skin.*

After eye contact: *Rinse opened eye for several minutes under running water.*

After swallowing: *If symptoms persist consult doctor.*

4.2. Most important symptoms and effects, both acute and delayed *No further relevant information available.*

4.3. Indication of any immediate medical attention and special treatment needed *No further relevant information available.*

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: *CO₂, extinguishing powder or water spray. Fight larger fires with water spray.*

For safety reasons unsuitable extinguishing agents: *Water with full jet*

5.2. Special hazards arising from the substance or mixture: *No further relevant information available.*

5.3. Advice for firefighters

Protective equipment: *The use of SCBA is recommended.*

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures *Not required.*

6.2. Environmental precautions *Do not allow to enter sewers/ surface or ground water*

6.3. Methods and material for containment and cleaning up *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)*

6.4. Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product is not subject to identification regulations according to directives on hazardous materials.

Observe the general safety regulations when handling chemicals

Information about protection against explosions and fires: *No special measures required.*

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *Store only in the original receptacle.*

Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Store away from oxidizing agents.

Further information about storage conditions:

Protect from heat and direct sunlight. Do not store in open or unlabelled containers.

Storage temperature between -8 °C and +40 °C.

Optimal storage temperature between -8 °C and +40 °C.

Duration of Storage: In closed, original container, at least 24 months

7.3. Specific end use(s) *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with limit values at the work place:

NIOSH Recommended exposure limit for Metalworking fluids: 0.5mg/m³ (particulate)

OSHA 29 CFR 1910.1000 for oil mist in air: 5 mg/m³

ACGIH: TLV for oil mist in air: 5 mg/m³

Additional information: The lists that were valid during the creation were used as basis.

8.2. Exposure controls

Personal protective equipment :

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes

Respiratory Protection: Not required.

Material of gloves

Suitable protective gloves: Nitril gloves, minimum thickness of 0.3 mm, e.g. Ultranitril type 491.

Corresponds to the standards DIN/EN 374-2 and 374-3.

Break-trough time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

Eye protection: Eye protector with side protection (framed eyeglasses) EN 166

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Color: Brown

Odor: like almonds

pH-value: 9.2- 9.7 @ in 5% H₂O (ASTM D1287)

Change in condition

Melting point/Melting range: Not applicable

Boiling point/Boiling range: 250 °C ASTM D86

Drip point: Not applicable

Pour point: - 8 °C (ASTM D97)

Flash point: 140°C (ASTM D92)

Ignition temperature: 420 °C (ASTM E659)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density: 0.97 g/cm³ @ 20°C (ASTM D1217)

Solubility in / Miscibility with

Water: Emulsifiable.

Viscosity:

Kinematic:

VOC content: 2.5 g/L (ASTM E1868-10)

9.2. Other information: none

SECTION 10: Stability and reactivity

- 10.1. Reactivity** *None known if used as directed.*
- 10.2. Chemical stability** *Stable under recommended storage conditions.*
- 10.3. Possibility of hazardous reactions** *Reacts with strong oxidizing agents.*
- 10.4. Conditions to avoid** *No further relevant information available.*
- 10.5. Incompatible materials** *No further relevant information available.*
- 10.6. Hazardous decomposition products (in case of fire or oxidation):**
Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)
Chlorine compounds

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects**
- Acute toxicity:**
- LD/LC50 values that are relevant for classification:**
> 2000 - < 5000 mg / kg (oral, rat)
> 5,100 mg/m³ 4h (inhalation, rat)
- 64742-52-5 Mineral oil, severely hydrotreated, naphthenic**
Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 > 2000 mg/kg (rat)
- Primary irritant effect:**
on the skin: *No irritant effect.*
on the eye: *No irritating effect.*
- Sensitization:** *No sensitizing effects known.*
- Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- Carcinogenic categories**
IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
- NTP (National Toxicology Program)**
None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1. Toxicity**
- Aquatic toxicity:**
64742-52-5 Mineral oil, severely hydrotreated, naphthenic
EC50 >1000 mg/kg (Bra)
- 12.2. Persistence and degradability** *No further relevant information available.*
- 12.3. Bioaccumulative potential** *No further relevant information available.*
- 12.4. Mobility in soil** *No further relevant information available.*
- Additional ecological information:**
General notes: *Do not allow product to reach ground water, water course or sewage system.*
- 12.5. Results of PBT and vPvB assessment**
PBT: *Not applicable.*
v P v B: *Not applicable.*
- 12.6. Other adverse effects** *No further relevant information available.*

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings

Recommendation: *Disposal must be made according to official regulations.*

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

California Proposition 65

Listed substances:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

California SCAQMD Rule 1144:

Category: Metalworking Fluid – Metal Removal – General. Recordkeeping requirement: Super Compliant.

(< 50 g/L VOC at max use concentration)

National regulations: *none*

15.2. Chemical safety assessment *A Chemical Safety Assessment has not been carried out*

SECTION 16: Other information

16.1. General

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

RoHS:

This product conforms to the RoHS Directive in that the RoHS regulated materials are absent or their concentrations are significantly below regulatory thresholds.

IP346:

The mineral oil used in this product passes IP346 for DMSO extractable PAH's (Polycyclic aromatic hydrocarbons).

The product does not contain:

Nitrite, nitrite releasing agents, formaldehyde, formaldehyde releasing substances, heavy metals, triazine (HHT), boron acid compounds, diethanolamine, N-nitrosodiethanolamine (NDELA) and/or nitrosamines, silicone, polychlorinated biphenyls and terphenyls (PCB, PCT) TCDD, dioxin-containing substances, chlorines or other

Department issuing SDS: *Product Safety Department sds@saradchem.ir*

Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

RoHS: Restriction of Hazardous Substances

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organization for Standardization

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

*** Data compared to the previous version altered.**

The asterisk () on the left side indicate the respective changes from the previous version.*

16.2. Date of the latest revision of the SDS