

Safety Data Sheet

Issue date: 8/8/1993 Revision date: 8/5/2022 Supersedes: 6/29/2022 Version: 11.0

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

SECTION 1: Identification

1.1. Identification

Trade name XCELTHERM® MK1 Solar Grade

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Heat Transfer Fluids
Recommended use: Heat transfer fluids

1.3. Supplier

Manufacturer Manufacturer

Radco Industries Inc.Radco Industries Inc.CAGE Code 6ZS16CAGE Code 1RVC4700 Kingsland Drive39W930 Midan DriveBatavia, Illinois 60510Elburn, Illinois 60147

United States
United States
T (630) 232-7966

www.radcoind.com
www.radcoind.com

1.4. Emergency telephone number

Emergency number: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970

(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation

Respiratory tract irritation

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs (respiratory system)

through prolonged or repeated exposure (Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

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GHS US labeling

Hazard pictograms (GHS US):





Signal word (GHS US): Warning

Hazard statements (GHS US): H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

H373 - May cause damage to organs (respiratory system) through prolonged or repeated

exposure (Inhalation)

Precautionary statements (GHS US): P260 - Do not breathe fume, mist, vapors, dust, gas, spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective clothing.

P302+P352 - If on skin: Wash with plenty of Gently wash with plenty of soap and water.. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER, a doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

2.3. Other hazards which do not result in classification

Other hazards which do not result in

None under normal conditions.

classification:

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
Diphenyl oxide	CAS-No.: 101-84-8	72.5 – 73.5	STOT RE 2, H373
			Aquatic Acute 1, H400

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Biphenyl	CAS-No.: 92-52-4	26.5 – 27.5	Skin Irrit. 2, H315
			Eye Irrit. 2, H319
			STOT SE 3, H335
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410

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 general: Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs:

Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

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

Potential Adverse human health effects and Harmful if inhaled. Irritation: may cause irritation to the respiratory system.

symptoms:

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Evacuate area. Fight fire with normal precautions from a reasonable distance. Use water

spray or fog for cooling exposed containers.

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

breathing apparatus. Complete protective clothing.

Other information: High temperature decomposition products are harmful by inhalation.

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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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid

contact with skin and eyes.

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

For containment: Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

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: Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-

ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.

Handling temperature: > 12 °C

Hygiene measures: Wash contaminated clothing before reuse. 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

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:				
Туре	Material	Permeation	Thickness (mm)	Penetration
	Polyvinylalcohol (PVA), Viton® II, Vinyl, Nitrile rubber (NBR), butyl rubber, Neoprene rubber (HNBR), Natural rubber			

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E١	/e	μ	u	ιe	CU	U	ш

Safety glasses

Туре	Field of application	Characteristics
Safety glasses		With side shields

Skin and body protection:

Type

Chemically resistant protective gloves

Personal protective equipment symbol(s):







Other information:

Do not breathe fume, gas, mist, spray, vapors, dust. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Color:	almost colourless to pale yellow
Odor:	aromatic
Odor threshold:	1 ppm Literature data
pH:	Not applicable
Melting point:	> 12 °C
Freezing point:	< 12 °C
Boiling point:	257 °C
Flash point:	124 °C Cleveland Open Cup (ASTM D92)

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Relative evaporation rate (butyl acetate=1):	< 1 Literature data
Flammability:	0.8 – 7 % Not applicable.
Vapor pressure:	0.025 mm Hg at 25°C (77°F) Literature data
Relative vapor density at 20 °C:	> 1 (Air = 1) Literature data
Relative density:	1.06 at 25°C (77°F)
Molecular mass:	≈ 166 g/mol
Solubility:	Insoluble. Water: 0.0138 g/l at 15°C (60°F) Literature data Ether: completely soluble Acetone: completely soluble Organic solvent:completely soluble
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	621 °C
Decomposition temperature:	400 °C 0.2% mass
Viscosity, kinematic:	2.48 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	Lower explosion limit: 0.8 vol % Upper explosion limit: 7 vol %
Explosive properties:	Not classified as explosive according to EC criteria, but may present risks in the event of a fire.
Oxidizing properties:	Not classified.

9.2. Other information

Volatilit	ty:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Not classified

Not classified

Skin corrosion/irritation: Causes skin irritation.

pH: Not applicable

Carcinogenicity: Not classified Aspiration hazard: Not classified

Viscosity, kinematic: 2.48 mm²/s at 40°C (104°F)

Potential Adverse human health effects Harmful

Harmful if inhaled. Irritation: may cause irritation to the respiratory system.

and symptoms:

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: Irritation.
Symptoms/effects after eye contact: Eye irritation.

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: May cause damage to organs (respiratory system) through prolonged or repeated

exposure (Inhalation).

Reproductive toxicity: Not classified

Diphenyl oxide (101-84-8)	
LD50 oral rat:	2830 mg/kg body weight Animal: rat, Animal sex: female, 95% CL: 2,49 - 3,21
LD50 dermal rabbit:	> 7940 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral):	2830 mg/kg body weight

Biphenyl (92-52-4)	
LD50 oral rat:	2400 mg/kg body weight (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit:	> 5010 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat:	> 3.47 mg/l (1 h, Rat, Male / female, Experimental value, Inhalation, 14 day(s))

Serious eye damage/irritation: Causes serious eye irritation.

pH: Not applicable

Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified

Biphenyl (92-52-4)	
STOT-single exposure:	May cause respiratory irritation.

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Diphenyl oxide (101-84-8)	
LOAEL (dermal,rat/rabbit,90 days):	100 mg/kg body weight Animal: rat
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight Animal: rat
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.

Diphenyl oxide (101-84-8)	
LC50 - Fish [1]:	4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]:	1.96 mg/l Test organisms (species): Daphnia magna
ErC50 algae:	0.58 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Biphenyl (92-52-4)	
LC50 - Fish [1]:	3 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
LOEC (chronic):	0.33 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic):	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish:	0.229 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '87 d'

12.2. Persistence and degradability

Readily biodegradable in water.
1.68 – 2 g O₂/g substance
2.19 − 2.5 g O₂/g substance
2.63 g O ₂ /g substance
0.72

Biphenyl (92-52-4)	
Persistence and degradability:	Readily biodegradable in water.
Biochemical oxygen demand (BOD):	1.08 g O₂/g substance
ThOD:	3.01 g O₂/g substance
BOD (% of ThOD):	0.36

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12.3. Bioaccumulative potential

Diphenyl oxide (101-84-8)		
BCF - Fish [1]:	155 – 200 (4 day(s), Oncorhynchus mykiss, Fresh water, Experimental value, Muscles)	
Partition coefficient n-octanol/water (Log Pow):	4.21 (Experimental value, 25 °C)	
Bioaccumulative potential:	Low potential for bioaccumulation (BCF < 500).	

Biphenyl (92-52-4)	
BCF - Fish [1]:	1900 (Equivalent or similar to OECD 305, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
BCF - Other aquatic organisms [1]:	540 (24 h, Chlorella sp., Fresh weight)
Partition coefficient n-octanol/water (Log Pow):	4.008 (Experimental value, Equivalent or similar to OECD 123, 25 °C)
Bioaccumulative potential:	Potential for bioaccumulation ($4 \le \text{Log Kow} \le 5$).

12.4. Mobility in soil

Diphenyl oxide (101-84-8)	
Surface tension:	39 mN/m (25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	3.3 (log Koc, Experimental value)
Ecology - soil:	Low potential for mobility in soil.

Biphenyl (92-52-4)	
Ecology - soil:	Low potential for mobility in 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

DOT NA No: UN3082
UN-No. (TDG): Not applicable

UN-No. (IMDG): 3082 UN-No. (IATA): 3082

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14.2. UN proper shipping name

Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s. (Biphenyl and Diphenyl Oxide

Mixture)

Proper Shipping Name (TDG): Not applicable

Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diphenyl; diphenyl

oxide)

Proper Shipping Name (IATA): Environmentally hazardous substance, liquid, n.o.s. (diphenyl; diphenyl oxide)

Transport document description (DOT): UN3082 Environmentally hazardous substances, liquid, n.o.s. (Biphenyl and Diphenyl

Oxide Mixture), 9, III

Transport document description (IMDG): UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diphenyl;

diphenyl oxide), 9, III (124°C c.c.)

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (diphenyl; diphenyl Transport document description (IATA):

oxide), 9, III

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT):

Hazard labels (DOT):



TDG

Transport hazard class(es) (TDG): Not applicable

IMDG

Transport hazard class(es) (IMDG):

Hazard labels (IMDG):



IATA

Transport hazard class(es) (IATA):

Hazard labels (IATA):



14.4. Packing group

Ш Packing group (DOT):

Packing group (TDG): Not applicable

Packing group (IMDG): Ш

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Packing group (IATA):

Ш

14.5. Environmental hazards

Other information:

No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT):

UN3082

DOT Special Provisions (49 CFR 172.102):

8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

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).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

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.

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): 155
DOT Packaging Non Bulk (49 CFR 173.xxx): 203
DOT Packaging Bulk (49 CFR 173.xxx): 241
DOT Quantity Limitations Passenger aircraft/rail No limit

(49 CFR 173.27):

DOT Quantity Limitations Cargo aircraft only (49 No limit

CFR 175.75):

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on

a passenger vessel.

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TDG

Emergency Response Guide (ERG) Number: 171

IMDG

Special provision (IMDG): 274, 335, 969

Limited quantities (IMDG): 5 L Excepted quantities (IMDG): E1

Packing instructions (IMDG): LP01, P001

Packing provisions (IMDG): PP1
IBC packing instructions (IMDG): IBC03
Tank instructions (IMDG): T4

Tank special provisions (IMDG): TP1, TP29

EmS-No. (Fire): F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage): S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG):

IATA

PCA Excepted quantities (IATA): E1
PCA Limited quantities (IATA): Y964
PCA limited quantity max net quantity (IATA) 30kgG
PCA packing instructions (IATA): 964
PCA max net quantity (IATA): 450L
CAO packing instructions (IATA): 450L

Special provision (IATA): A97, A158, A197, A215

ERG code (IATA): 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Diphenyl oxide	101-84-8	Present	Active	
Biphenyl	92-52-4	Present	Active	

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Biphenyl	CAS-No. 92-52-4	26.5 – 27.5%

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Biphenyl (92-52-4)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ:	100 lb

15.2. International regulations

CANADA

Diphenyl oxide (101-84-8)

Listed on the Canadian DSL (Domestic Substances List)

Biphenyl (92-52-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Diphenyl oxide (101-84-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Biphenyl (92-52-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

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Full text of	Full text of H-phrases	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H373	May cause damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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Abbreviations and acronyms		
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

NFPA health

2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

hazard

NFPA fire hazard 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

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Hazard Rating

Health 2 Moderate Hazard - Temporary or minor injury may occur

Flammability 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids

having a flash point above 200 F. (Class IIIB)

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.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular process or for any particular purpose. Such information stated is to the best of Radco's knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability, or completeness, purchasers, users and distributors are not relying on any promise, representation, or recommendation made by Radco, and Radco does not accept liability for any loss or damage that may occur from the use of this information. Final determination of suitability of any material is the sole responsibility of the user. All material should be used with caution to guard against unknown hazards. Although certain hazards are described herein, Radco does not guarantee that these are the only hazards that exist.

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