SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

MR 920 Liquid Release

Registration number

Synonyms None

Issue date 08-October-2013

Version number 01 **Revision date** Supersedes date

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

Identified uses Release agent.

Uses advised against Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

TR Industries a Division of Granitize Products Inc. Manufacturer/Supplier

11022 Vulcan Street **Address**

South Gate, CA 90280-0893 United States

(562) 923-5438 Telephone:

CHEMTREC: (800) 424-9300 **Emergency**

CHEMTREC International: 00 1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R10, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Xi;R38, R67, N;R51/53

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable gases Category 1 H220 - Extremely flammable gas. Flammable liquids H226 - Flammable liquid and Category 3

vapour.

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Germ cell mutagenicity Category 1B H340 - May cause genetic defects.

Carcinogenicity Category 1B H350 - May cause cancer.

H336 - May cause drowsiness or Specific target organ toxicity - single Category 3 narcotic effects

exposure

dizziness.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

Hazard summary

Physical hazards Flammable.

Health hazards May cause cancer. May cause heritable genetic damage. Irritating to skin. Vapours may cause

drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse

Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards Vapors may form explosive vapor/air mixtures. Repeated exposure may cause skin dryness or

cracking.

Main symptoms Swallowing or vomiting of the liquid may result in aspiration into the lungs.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Naphtha (petroleum), hydrotreated heavy

MR 920 Liquid Release SDS EU 1/9

916418 Version No : 01 Revision date: - Issue date: 08-October-2013

Hazard pictograms



Signal word Danger

Hazard statements H220 - Extremely flammable gas.

H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H340 - May cause genetic defects.

H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

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.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash thoroughly after handling.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

Response P370 + P378 - In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P332 + P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P391 - Collect spillage.

Storage P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P233 - Keep container tightly closed.

Disposal P501 - Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information Not applicable.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

Naphtha (petroleum), hydrotreated > 90 64742-48-9 - 649-327-00-6

heavy 265-150-3

Classification: DSD: R10, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Xn;R65, Xi;R38, R67, N;R51/53

CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Muta. 1B;H340,

2/9

Carc. 1B;H350, Aquatic Chronic 2;H411

Proprietary resin < 10 Proprietary - -

Classification: DSD: -

CLP: -

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

Composition commentsThe full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

MR 920 Liquid Release SDS EU

916418 Version No.: 01 Revision date: - Issue date: 08-October-2013

SECTION 4: First aid measures

General information

Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Move into fresh air and keep at rest. If breathing is difficult, give oxygen. Get medical attention if

discomfort develops or persists.

Skin contact Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists.

Wash clothing separately before reuse.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Get medical attention if irritation

develops and persists.

Ingestion Immediately rinse mouth and drink a cupful of water. Never give anything by mouth to a victim who

is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Swallowing of the liquid, or vomiting as a result, may result in aspiration into the lungs.

4.3. Indication of any immediate medical attention and special treatment needed

Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards The product is flammable, and heating may generate vapours which may form explosive vapour/air

mixtures.

5.1. Extinguishing media

Suitable extinguishing

media

Foam. Dry chemical powder.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Containers may explode under fire conditions - use

water spray to cool unopened containers.

5.3. Advice for firefighters

Special protective equipment for firefighters

Special fire fighting procedures

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Containers should be cooled with water to prevent vapor pressure build up. Cool containers exposed to flames with water until well after the fire is out. Move containers from fire area if you

can do so without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not smoke or use open fire or other sources of ignition. Avoid breathing mist or vapour. See Section 8 of the SDS for Personal Protective Equipment.

For emergency responders

Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary personnel away.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

6.3. Methods and material for containment and cleaning up

Remove sources of ignition. Prevent entry into waterways, sewers, basements or confined areas. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Large Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Following product recovery, flush area with water.

Small Spills: Wipe up spilled material and place in a suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Dike the spilled material, where this is possible.

6.4. Reference to other sections

For waste disposal, see Section 13 of the SDS. For personal protection, see Section 8 of the SDS.

MR 920 Liquid Release SDS EU

916418 Version No.: 01 Revision date: - Issue date: 08-October-2013

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Wear personal protective equipment. Avoid breathing mist or vapour. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. When using, do not eat, drink or smoke. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep out of the reach

of children.

7.3. Specific end use(s)

Proprietary resin solution.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Finland. Workplace Exposure Limits

Components	Туре	Value	
Naphtha (petroleum), hydrotreated heavy (CAS	TWA	500 mg/m3	
64742-48-9)			

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	
Naphtha (petroleum),	TWA	300 mg/m3	
hydrotreated heavy (CAS			
64742-48-9)			
		50 ppm	

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in **Working Environment**

Components	Туре	Value	
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	STEL	900 mg/m3	
	TWA	300 mg/m3	
Switzerland. SUVA Grenzwerte	am Arbeitsplatz		
Components	Туре	Value	
Naphtha (petroleum),	STEL	600 mg/m3	

hydrotreated heavy (CAS 64742-48-9)

100 ppm **TWA** 300 mg/m3 50 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

Recommended monitoring procedures

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply or an emergency shower. Explosion proof exhaust ventilation should

be used.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear approved safety glasses or goggles. Wear face shield if there is risk of splashes.

Skin protection

MR 920 Liquid Release SDS EU

916418 Version No : 01 Revision date: - Issue date: 08-October-2013 - Hand protection Chemical resistant gloves are recommended.

- Other Wear protective gloves.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or

canister.

Thermal hazards Not applicable.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

> and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety

practices. Follow up on any medical surveillance requirements.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colourless liquid.

Physical state Liquid. **Form** Liquid. Colour Colourless.

Characteristic of solvents. Odour

Odour threshold Not available. Not available. рH Not available. Melting point/freezing point

Initial boiling point and boiling

range

160 - 182,22 °C (320 - 360 °F)

Flash point > 37,8 °C (> 100,0 °F)

0.2 **Evaporation rate**

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

6 Flammability limit - upper

(%)

Not available. Vapour pressure 5 (Air = 1)Vapour density 0,876 Relative density

Negligible in water. Solubility(ies)

Partition coefficient (n-octanol/water)

Not available.

0.9

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not available. Oxidizing properties Not available.

9.2. Other information

VOC (Weight %) > 90 %

SECTION 10: Stability and reactivity

10.1. Reactivity The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Heat, flames and sparks. Electrostatic Discharge.

10.5. Incompatible materials Moisture. Strong oxidizers, strong acids, and strong bases.

MR 920 Liquid Release SDS EU 5/9

10.6. Hazardous decomposition products Carbon monoxide. Carbon dioxide. Fumes. Smoke.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

May cause discomfort if swallowed. Ingestion

Vapours may irritate throat and respiratory system and cause coughing. Inhalation

Skin contact Irritating to skin.

Direct contact with eyes may cause temporary irritation. Eye contact

Swallowing or vomiting of the liquid may result in aspiration into the lungs. **Symptoms**

11.1. Information on toxicological effects

May cause central nervous system effects. Acute toxicity

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation Not assigned.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity May cause genetic defects.

May cause cancer. Carcinogenicity Reproductive toxicity Not assigned.

Specific target organ toxicity -

single exposure

Not assigned.

Specific target organ toxicity -

repeated exposure

Not assigned.

May be fatal if swallowed and enters airways. Droplets of the product aspirated into the lungs **Aspiration hazard**

through ingestion or vomiting may cause a serious chemical pneumonia.

Mixture versus substance

information

Not available.

Other information Symptoms may be delayed. Components of the product may be absorbed into the body through

the skin. Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

12.2. Persistence and Not available

degradability

12.3. Bioaccumulative potential Not available. Not available. Partition coefficient

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Expected to be highly mobile in soil. 12.5. Results of PBT Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

EU waste code Waste codes should be assigned by the user based on the application for which the product was

used. The Waste code should be assigned in discussion between the user, the producer and the

6/9

waste disposal company.

Disposal methods/information Do not incinerate sealed containers. Do not dispose of waste into sewer. Do not contaminate

ponds, waterways or ditches with chemical or used container.

MR 920 Liquid Release SDS EU

SECTION 14: Transport information

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14.1. UN number UN1866 14.2. UN proper shipping Resin Solution, flammable name 3 14.3. Transport hazard class(es) Subsidiary class(es) Ш 14.4. Packing group 14.5. Environmental hazards Yes Not available. **Tunnel restriction code** Labels required 3 Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user **RID** UN1866 14.1. UN number Resin Solution, flammable 14.2. UN proper shipping 3 14.3. Transport hazard class(es) Subsidiary class(es) Ш 14.4. Packing group 14.5. Environmental hazards Yes Labels required 3 Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user **ADN** UN1866 14.1. UN number Resin Solution, flammable 14.2. UN proper shipping name 3 14.3. Transport hazard class(es) Subsidiary class(es) 14.4. Packing group Ш 14.5. Environmental hazards Yes Labels required 3 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **IATA** 14.1. UN number UN1866 Resin Solution, flammable 14.2. UN proper shipping name 14.3. Transport hazard 3 class(es) Subsidiary class(es) Ш 14.4. Packing group 14.5. Environmental hazards Yes Labels required 3 3L **ERG** code 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **IMDG** 14.1. UN number UN1866 14.2. UN proper shipping Resin Solution, flammable name 14.3. Transport hazard 3 class(es) Subsidiary class(es) Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant Yes

MR 920 Liquid Release SDS EU

Read safety instructions, SDS and emergency procedures before handling

Revision date: - Issue date: 08-October-2013 916418 Version No.: 01

3 F-E, S-E*

Labels required

14.6. Special precautions

EmS

for user

7/9

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Directive 94/33/EC on the protection of young people at work

Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

96/82/EC (Seveso II) Directive; Part 2 (Classified Substances) - Flammable

Young people under 18 years old are not allow to work with this product according to the EU **National regulations**

Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure. Follow national regulation for work with

chemical agents.

15.2. Chemical safety

assessment

Not available.

SECTION 16: Other information

List of abbreviations DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

MR 920 Liquid Release 8/9 916418 Version No.: 01 Revision date: - Issue date: 08-October-2013

References **IUCLID**

HSDB

CONCAWE Hazard classification and labelling of petroleum substances in the European

Economic Area - 2010

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable. R38 Irritating to skin. R45 May cause cancer.

R46 May cause heritable genetic damage.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

Training information Follow training instructions when handling this material.

SDS EU MR 920 Liquid Release

916418 Version No.: 01 Revision date: - Issue date: 08-October-2013