Safety Data Sheet



SECTION 1: Product and company identification

Product name : Malathion 57%
Use of the substance/mixture : Insecticide
Product code : 068001

Company : Share Corporation P.O. Box 245013

Milwaukee, WI 53224 - USA

T (414) 355-4000

Emergency number : Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226 Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2B H320 Skin Sens. 1 H317 Muta. 1B H340 Carc. 1B H350 STOT SE 3 H335 STOT SE 3 H336 H304 Asp. Tox. 1

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Flammable liquid and vapor

Harmful if swallowed

May be fatal if swallowed and enters airways

Causes skin irritation

May cause an allergic skin reaction

Causes eye irritation

May cause respiratory irritation May cause drowsiness or dizziness

May cause genetic defects

May cause cancer

Precautionary statements (GHS-US) : Obtain special instructions before use

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

Keep away from heat, open flames, sparks. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment Use explosion-proof electrical, lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Avoid breathing spray, mist Wash thoroughly after handling

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection, protective clothing, protective gloves If swallowed: Immediately call a doctor, a POISON CENTER

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

If inhaled: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

If exposed or concerned: Get medical advice/attention

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Call a doctor, a POISON CENTER if you feel unwell

Rinse mouth

Do NOT induce vomiting

If skin irritation or rash occurs: Get medical advice/attention If eye irritation persists: Get medical advice/attention Take off contaminated clothing and wash it before reuse

In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish

Store in a well-ventilated place. Keep cool.

Store locked up

Dispose of contents/container to comply with local/regional/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion]	(CAS No) 121-75-5	40-70	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
SOLVESSO 100	(CAS No) 64742-95-6	15-40	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	(CAS No) 25551-13-7	10-30	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	10-30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
cumene	(CAS No) 98-82-8	1-5	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
xylene	(CAS No) 1330-20-7	0.1-2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Solvent naphtha (petroleum), heavy arom.	(CAS No) 64742-94-5	0.1-1	Asp. Tox. 1, H304

SECTION 4: First aid measures

If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: First-aid measures general Get medical advice/attention.

First-aid measures after inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap First-aid measures after skin contact and water. If skin irritation or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. First-aid measures after eye contact Continue rinsing. If eye irritation persists: Get medical advice/attention.

Immediately call a poison center or doctor/physician. Do NOT induce vomiting. First-aid measures after ingestion

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

Symptoms/injuries : If you feel unwell, seek medical advice. May cause cancer. May cause genetic defects (through

prolonged or repeated exposure).

EXPOSURE TO HIGH CONCENTRATIONS: May cause drowsiness or dizziness. Irritation of the Symptoms/injuries after inhalation respiratory tract. Headache. Nausea. Central nervous system depression. Shortness of breath.

Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin Symptoms/injuries after skin contact dryness or cracking.

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Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Cramps/uncontrolled

muscular contractions. Vomiting. Feeling of weakness. Disturbances of consciousness.

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

Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : Explosion risk in case of fire. May form flammable/explosive vapor-air mixture.

Reactivity : Thermal decomposition may produce oxides of carbon and sulfur.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely

due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of

environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. No naked flames or sparks.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation. Take

up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a

soap solution.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and

understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing

immediately.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be

followed.

Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away

from: sparks, open flames, excessive heat.

Incompatible products : strong acids. Strong bases.
Incompatible materials : Sources of ignition. Heat sources.

Storage area : Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container, meet the legal requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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malathion (ISO), 1	,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosp	horodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
ACGIH	Remark (ACGIH)	Cholinesterase inhib
Trimethylbenzene	(25551-13-7)	
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	Remark (ACGIH)	CNS impair; asthma; hematologic eff
1,2,4-trimethylben	zene (95-63-6)	
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (ppm)	25 ppm
cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
xylene (1330-20-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair

8.2. Exposure controls

Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective goggles. Protective clothing.







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, light yellow to golden liquid.

Odor strong characteristic Odor threshold No data available рΗ No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point 123 °F Closed Cup Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** No data available No data available Explosive properties Oxidizing properties : No data available Vapor pressure : No data available Relative density No data available Relative vapor density at 20 °C No data available

Specific gravity / density : 1.073 g/ml
Solubility : Emulsifies in water.
Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

Viscosity, kinematic : < 20 cSt

Viscosity, dynamic : No data available

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VOC content : < 40 %



SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition may produce oxides of carbon and sulfur.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Oral: Harmful if swallowed. Acute toxicity

, ,, , , ,	nyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)
ATE CLP (oral)	500.000 mg/kg body weight
SOLVESSO 100 (64742-95-6)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit)
Trimethylbenzene (25551-13-7)	
LD50 oral rat	500 mg/kg
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
xylene (1330-20-7)	
LC50 inhalation rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4550.000 ppmV/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Names and manufacture shall be	NATURAL SALES SALES AND

Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.

malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)		
IARC group	C group 3 - Not Classifiable	
cumene (98-82-8)		
IARC group	2B - Possibly Carcinogenic to Humans	
xylene (1330-20-7)		
IARC group	3 - Not Classifiable	

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : May be fatal if swallowed and enters airways.

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Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: May cause drowsiness or dizziness. Irritation of the respiratory tract. Headache. Nausea. Central nervous system depression. Shortness of

breath

Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin

dryness or cracking.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

Cramps/uncontrolled muscular contractions. Vomiting. Feeling of weakness. Disturbances of

consciousness.

SECTION 12: Ecological information

12.1. Toxicity

SOLVESSO 100 (64742-95-6)		
LC50 fish 1	18 mg/l (Pisces)	
EC50 Daphnia 1	21 mg/l (Daphnia sp.)	
Threshold limit algae 1	1 - 10,Algae	
1,2,4-trimethylbenzene (95-63-6)		
LC50 fish 1	7.72 mg/l (96 h; Pimephales promelas; Lethal)	
LC50 fish 2	18 mg/l (48 h; Oryzias latipes)	
Threshold limit algae 1	1 mg/l (72 h; Algae)	
Threshold limit algae 2	2.356 mg/l (96 h; Algae)	

12.2. Persistence and degradability

SOLVESSO 100 (64742-95-6)	
Persistence and degradability	Readily biodegradable in water.
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 g O ☐/g substance

12.3. Bioaccumulative potential

SOLVESSO 100 (64742-95-6)	
Log Pow > 3	
1,2,4-trimethylbenzene (95-63-6)	
BCF fish 1	31 - 275 (8 weeks; Cyprinus carpio)
Log Pow	3.63 - 4.09 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description : UN1993 Flammable liquids, n.o.s. (Petroleum Naphta, Malathion), 3, III

UN-No.(DOT) : UN199

Proper Shipping Name (DOT) $\qquad \qquad : \ \ \, \text{Flammable liquids, n.o.s.}$

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

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

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: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : B1,B52,IB3,T4,TP1,TP29

DOT Packaging Exceptions (49 CFR

173.xxx)

DOT Symbols

: 150

DOT Quantity Limitations Passenger

aircraft/rail (49 CFR 173.27)

: 60 L

DOT Quantity Limitations Cargo aircraft

only (49 CFR 175.75)

: 220 L

DOT Vessel Stowage Location : A

Additional information

Other information

: When transported by ground in non-bulk containers, this product utilizes the exception found under

49 CFR 173.150.

ADR

No additional information available

Transport by sea

xylene (1330-20-7)

List of Lists)

Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

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

malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)

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.

malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion]	CAS No 121-75-5	40-70
1,2,4-trimethylbenzene	CAS No 95-63-6	10-30
cumene	CAS No 98-82-8	1-5
xylene	CAS No 1330-20-7	0.1-2

	, o amount, prooprior outside (contamining = 0.00 /0.00ma.au
Listed on SARA Section 313 (Specific toxic chem	ical listings)
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
1,2,4-trimethylbenzene (95-63-6)	
Listed on SARA Section 313 (Specific toxic chem	ical listings)
cumene (98-82-8)	
Listed on SARA Section 313 (Specific toxic chem	ical listings)
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury

unless prompt medical attention is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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