



SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Mineral Spirits
Other means of identification	
Product code	ADV 124-1
Recommended use	Solvent

Manufacturer/Importer/Supplier/Distributor information

Company name	INTERNATIONAL AUTOBODY MARKETING GROUP
Address	1505 NORTH HAYDEN RD, SUITE 111 SCOTTSDALE, AZ 85257 UNITED STATES

Website	www.advantagerefinish.com
---------	--

Telephone	1-87-REFINISH 480.451.4451
-----------	-------------------------------

Emergency phone number	800-424-9300 ChemTrec EMERGENCY 24 Hrs.
------------------------	---

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids	Category 3
Skin irritation	Category 2
Eye irritation	Category 2A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity - single exposure	Category 3 (Central nervous system)
Aspiration hazard	Category 1

GHS Label element

Hazard pictograms



Safety Data Sheet

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: 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.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Safety Data Sheet

P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
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.

Potential Health Effects

Primary Routes of Entry	Inhalation Skin contact Eye Contact Ingestion
Aggravated Medical Condition	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Kidney Liver Skin Respiratory disorders Central nervous system auditory system
Symptoms of Overexposure	Irritation Dermatitis Headache Dizziness Unconsciousness Aspiration may cause pulmonary oedema and pneumonitis. Fatigue Nausea

Carcinogenicity:
IARC

Group 1: Carcinogenic to humans	
71-43-2	**Benzene
Group 2B: Possibly carcinogenic to humans	
91-20-3	**Naphthalene
98-82-8	**Cumene

Safety Data Sheet

ACGIH	100-41-4	**Ethylbenzene
	Confirmed human carcinogen	
	71-43-2	**Benzene
OSHA	Confirmed animal carcinogen with unknown relevance to humans	
	100-41-4	**Ethylbenzene
	OSHA specifically regulated carcinogen	
NTP	71-43-2	**Benzene
	Known to be human carcinogen	
	71-43-2	**Benzene
	Reasonably anticipated to be a human carcinogen	
	91-20-3	**Naphthalene

Emergency Overview

Appearance	liquid
Colour	clear, transparent
Odour	petroleum distillates, solvent-like, hydrocarbon-like
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	90 - 100
25551-13-7	**Benzene, trimethyl-	5 - 10
95-63-6	**1,2,4-trimethylbenzene	5 - 10
1330-20-7	**Mixed Xylenes	5 - 10
91-20-3	**Naphthalene	5 - 10
111-84-2	**Nonane	5 - 10

Safety Data Sheet

108-88-3	**Toluene	1 - 5
98-82-8	**Cumene	1 - 5
100-41-4	**Ethylbenzene	1 - 5
110-54-3	**n-Hexane	1 - 5
71-43-2	**Benzene	0.1 - 1

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	If unconscious place in recovery position and seek medical advice. Remove to fresh air. Give artificial respiration if not breathing. Keep victim warm and at rest. Call a physician.
In case of skin contact	If skin irritation persists, call a physician. If on skin, rinse well with water. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.
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. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	Irritation Dermatitis Headache Dizziness Unconsciousness

Safety Data Sheet

	Aspiration may cause pulmonary oedema and pneumonitis. Fatigue Nausea
Protection of first-aiders	First Aid responders should pay attention to self-protection and use the recommended protective clothing
Notes to physician	In case of shortness of breath, give oxygen. Treat symptomatically

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 firefighting	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	Carbon oxides Fume Smoke Unburned hydrocarbons
Specific extinguishing methods	Use a water spray to cool fully closed containers.
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.
Special protective equipment for firefighters	Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

NFPA Flammable and Combustible Liquids Classification:
Flammable Liquid Class IC

Safety Data Sheet

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 precau-
tions

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

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.

Conditions for safe stor-
age

No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Safety Data Sheet

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	TWA	100 ppm	ACGIH
		TWA	350 mg/m3	NIOSH REL
		C	1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
25551-13-7	**Benzene, trimethyl-	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
95-63-6	**1,2,4-trimethylbenzene	TWA	25 ppm 125 mg/m3	NIOSH REL
1330-20-7	**Mixed Xylenes	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
91-20-3	**Naphthalene	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0
111-84-2	**Nonane	TWA	200 ppm	ACGIH
		TWA	200 ppm 1,050 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA P0

Safety Data Sheet

			1,050 mg/m3	
108-88-3	**Toluene	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
98-82-8	**Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
100-41-4	**Ethylbenzene	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
110-54-3	**n-Hexane	TWA	50 ppm	ACGIH
		TWA	50 ppm 180 mg/m3	NIOSH REL
		TWA	500 ppm 1,800 mg/m3	OSHA Z-1
		TWA	50 ppm 180 mg/m3	OSHA P0
71-43-2	**Benzene	TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
		TWA	0.1 ppm	NIOSH REL
		ST	1 ppm	NIOSH REL
		PEL	1 ppm	OSHA CARC
		STEL	5 ppm	OSHA CARC
		TWA	10 ppm	OSHA Z-2
		CEIL	25 ppm	OSHA Z-2
		Peak	50 ppm	OSHA Z-2

Safety Data Sheet

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
**Mixed Xylenes	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
**Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI
**Ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid	Urine	End of shift at end of work-week	0.7 g/g creatinine	ACGIH BEI
**n-Hexane	110-54-3	2,5-Hexanedione	Urine	End of shift at end of work-week	0.4 mg/l	ACGIH BEI
**Benzene	71-43-2	S-Phenylmercap-	Urine	End of shift (As	25 µg/g creatinine	ACGIH BEI

Safety Data Sheet

		turic acid		soon as possible after exposure ceases)		
		t,t-Muconic acid	Urine	End of shift (As soon as possible after exposure ceases)	500 µg/g creatinine	ACGIH BEI

Personal protective equipment

Respiratory protection	No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.
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 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, transparent
Odour	petroleum distillates, solvent-like, hydrocarbon-like

Safety Data Sheet

Odour Threshold	No data available
pH	not applicable
Freezing Point (Freezing Point)	-76 °C (-105 °F)
Boiling Point (Boiling point/boiling range)	157 - 218 °C (315 - 424 °F)
Flash point	37.78 - 44 °C (100.00 - 111 °F)
Evaporation rate	0.14 - 0.2 n-Butyl Acetate
Flammability (solid, gas)	No data available
Burning rate	No data available
Upper explosion limit	5.6 - 7.0 %(V)
Lower explosion limit	0.5 - 1.1 %(V)
Vapour pressure	0.22 - 0.62 mmHg @ 20 °C (68 °F)
Relative vapour density	4.9
Relative density	0.77 - 0.80 @ 15.5 °C (59.9 °F) Reference substance: (water = 1)
Density	No data available
Bulk density	No data available
Solubility(ies) Water solubility	0.05 g/l negligible
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	229 - 282 °C
Thermal decomposition	No data available
Viscosity Viscosity, kinematic	1.03 mm ² /s @ 40 °C (104 °F)

Safety Data Sheet

Regulatory VOC (lbs/gal)	6.44
Regulatory VOC (g/l)	772.00
Actual VOC (lbs/gal)	6.44
Actual VOC (g/l)	772.00

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	Reducing agents Strong bases Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Acute oral toxicity	LD50 (rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	LC50 (rat, male and female): >5500 Exposure time: 4 h Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	LD50 (rabbit, male and female): > 2,000 mg/kg GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

Safety Data Sheet

Skin corrosion/irritation

Product:

Classification: Irritating to skin.

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Species: rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Classification: Irritating to eyes.

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Test Type: Buehler Test

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Genotoxicity in vitro

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: positive

Test Type: Chromosome aberration test in vitro

Test species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Result: positive

Safety Data Sheet

Genotoxicity in vivo

Test Type: In vivo micronucleus test
Test species: mouse
Cell type: Peripheral blood erythrocytes
Application Route: Inhalation
Exposure time: 3 mths
Dose: 138 - 2200 mg/m3
Result: positive

Test Type: In vivo micronucleus test
Test species: rat
Cell type: Peripheral blood erythrocytes
Application Route: Inhalation
Exposure time: 3 mths
Dose: 138 - 2200 mg/m3
Result: positive

Germ cell mutagenicity-
Assessment

Positive result(s) from in vivo heritable germ cell mu-
tagenicity tests in mammals

Carcinogenicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Species: rat, (male and female)
Application Route: Inhalation
Exposure time: 105 wks
Activity duration: 6 h
Dose: 0, 138, 550, 1100, 2200 mg/m3
Frequency of Treatment: 5 days/week
NOAEL: 138 mg/m³

Result: No evidence of carcinogenic activity in females, Evidence of carcinogenic activity in males

Symptoms: Increased incidence of pheochromocytomas in adrenal glands

Remarks: Category 1B

Carcinogenicity - As-
sessment

Possible human carcinogen

98-82-8:

Carcinogenicity - As-
sessment

Not classifiable as a human carcinogen.

100-41-4:

Carcinogenicity - As-
sessment

Not classifiable as a human carcinogen.

Safety Data Sheet

Reproductive toxicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Effects on fertility

Species: rat
Application Route: Oral
Dose: 0, 750, 1500, 3000 mg/kg/d
General Toxicity - Parent: NOAEL: 1,500 mg/kg body weight
Fertility: NOAEL: $\geq 3,000$ mg/kg body weight
Symptoms: weight loss
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Species: rat
Application Route: Oral
Dose: 0, 325, 750, 1500 mg/kg/d
General Toxicity - Parent: NOAEL: 750 mg/kg body weight
General Toxicity F1: NOAEL: 750 mg/kg body weight
Fertility: NOAEL: $\geq 1,500$ mg/kg body weight
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.
Result: Animal testing did not show any effects on fertility.
Remarks: Information given is based on data obtained from similar substances.

Species: rat
Application Route: Dermal
Dose: 0, 165, 330, 494 mg/kg
General Toxicity - Parent: NOAEL: ≥ 494 mg/kg
Fertility: NOAEL: ≥ 494 mg/kg
Early Embryonic Development: NOAEL: ≥ 494 mg/kg
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development

Species: rat
Application Route: Oral
Dose: 0, 500, 1000, 1500, 2000 milligram per kilogram
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 500 mg/kg body weight
Teratogenicity: NOAEL: 2,000 mg/kg body weight
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Safety Data Sheet

Symptoms: Reduced body weight
Method: OECD Test Guideline 414
Result: Developmental toxicity occurred at maternal toxicity dose levels, No teratogenic effects.

Reproductive toxicity - Assessment

No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

STOT - single exposure

Product:No data available

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

25551-13-7:No data available

95-63-6:No data available

1330-20-7:No data available

91-20-3:No data available

111-84-2:No data available

108-88-3:No data available

98-82-8:No data available

100-41-4:No data available

110-54-3:No data available

71-43-2:No data available

Safety Data Sheet

STOT - repeated exposure

Product:No data available

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:No data available

25551-13-7:No data available

95-63-6:No data available

1330-20-7:No data available

91-20-3:No data available

111-84-2:No data available

108-88-3:No data available

98-82-8:No data available

100-41-4:No data available

110-54-3:No data available

71-43-2:No data available

Repeated dose toxicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Species: rat, male and female

NOAEL: 275

Application Route: Inhalation

Exposure time: 14 wks

Number of exposures: 6 h/d, 5 d/wk

Safety Data Sheet

Dose: 138, 275, 550, 1100, 2200mg/m³
Group: yes
Symptoms: nasal symptoms, Testicular effects, Kidney disorders
Remarks: male rat hydrocarbon nephropathy not relevant to humans

Species: rat, male
LOAEL: 750 mg/kg
Application Route: Oral
Exposure time: 70 - 90 d
Number of exposures: Daily
Dose: 0, 750, 1500, 3000 mg/kg/day
GLP: yes
Symptoms: weight loss, Local irritation

Species: mouse, male and female
LOAEL: 138
Application Route: Inhalation
Exposure time: 14 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 138, 275, 550, 1100, 2200mg/m³
Group: yes
Symptoms: Spleen effects

Species: rat, female
NOAEL: 750 mg/kg
Application Route: Oral
Exposure time: 21 wks
Number of exposures: Daily
Dose: 0, 325, 750, 1500 mg/kg/day
GLP: yes
Symptoms: weight loss, Local irritation

Species: rat, male and female
NOAEL: ≥ 24
Application Route: Inhalation
Test atmosphere: vapour
Exposure time: 4 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 24 mg/m³
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Species: rat, male and female
NOAEL: ≥ 0.5 mg/l
Application Route: Dermal
Exposure time: 4 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 1.01, 0.05, 0.5 ml/kg/day
Method: OECD Test Guideline 410
GLP: yes

Safety Data Sheet

Remarks: Information given is based on data obtained from similar substances.

Repeated dose toxicity - : Causes skin irritation.
Assessment

Aspiration toxicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Toxicity to fish	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes Remarks: Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates	EL50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	EL50 (Pseudokirchneriella subcapitata): 1 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Safety Data Sheet

Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

Acute aquatic toxicity Toxic to aquatic life.

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Biodegradability aerobic
Concentration: 101 mg/l
Biodegradation: 61 %
Testing period: 10 d
Exposure time: 28 d
Lag phase: 5 d
Test substance: Solvent naphtha (petroleum), heavy aromatic
GLP: yes

Bioaccumulative potential

Components:

95-63-6:

Partition coefficient: n-octanol/water Remarks: No data available

1330-20-7:

Partition coefficient: n-octanol/water log Pow: 2.77 - 3.15

91-20-3:

Partition coefficient: n-octanol/water log Pow: 3.4 (25 °C)
pH: 7 - 7.5

108-88-3:

Partition coefficient: n-octanol/water log Pow: 2.73

98-82-8:

Partition coefficient: n-octanol/water log Pow: 3.55 (23 °C)

71-43-2:

Partition coefficient: n-octanol/water Pow: 2.13 (25 °C)
pH: 7

Safety Data Sheet

Mobility in soil

Components:

8052-41-3 / 64742-88-7 / 64742-48-9:

Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects

No data available

Product:

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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of in accordance with all applicable local, state and federal regulations.
Waste from residues	
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

IATA (International Air Transport Association): UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Flash Point:37.78 - 44 °C(100.00 - 111 °F)

IMDG (International Maritime Dangerous Goods): UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Marine Pollutant (STODDARD SOLVENT, TRIMETHYLBENZENE)

Safety Data Sheet

DOT (Department of Transportation): UN1268, PETROLEUM DISTILLATES, N.O.S., CBL, III

Special Notes: The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gal-lon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Carcinogen, Moderate skin irritant, Moderate eye irritant, Moderate respiratory irritant, Teratogen, Reproductive hazard, Mutagen, Aspiration hazard

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)
**Benzene	71-43-2	10	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards Fire Hazard
Chronic Health Hazard
Acute Health Hazard

SARA 302 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:

95-63-6	**1,2,4-trimethylbenzene	5.14 %
1330-20-7	**Mixed Xylenes	5 %

Safety Data Sheet

91-20-3	**Naphthalene	5 %
108-88-3	**Toluene	1.1 %
98-82-8	**Cumene	1 %
100-41-4	**Ethylbenzene	1 %
110-54-3	**n-Hexane	1 %
71-43-2	**Benzene	0.9999 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

1330-20-7	**Mixed Xylenes	5 %
91-20-3	**Naphthalene	5 %
108-88-3	**Toluene	1.1 %
98-82-8	**Cumene	1 %
100-41-4	**Ethylbenzene	1 %
110-54-3	**n-Hexane	1 %
71-43-2	**Benzene	0.9999 %

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 Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7	**Mixed Xylenes	5 %
108-88-3	**Toluene	1.1 %
98-82-8	**Cumene	1 %
100-41-4	**Ethylbenzene	1 %
71-43-2	**Benzene	0.9999 %

Clean Water Act

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

91-20-3	**Naphthalene	5 %
108-88-3	**Toluene	1.1 %
100-41-4	**Ethylbenzene	1 %

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

1330-20-7	**Mixed Xylenes	5 %
91-20-3	**Naphthalene	5 %
108-88-3	**Toluene	1.1 %
100-41-4	**Ethylbenzene	1 %
71-43-2	**Benzene	0.9999 %

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

1330-20-7	**Mixed Xylenes	5 %
91-20-3	**Naphthalene	5 %
108-88-3	**Toluene	1.1 %

Safety Data Sheet

100-41-4	**Ethylbenzene	1 %
71-43-2	**Benzene	0.9999 %

Massachusetts Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	90 - 100 %
25551-13-7	**Benzene, trimethyl-	5 - 10 %
95-63-6	**1,2,4-trimethylbenzene	5 - 10 %
1330-20-7	**Mixed Xylenes	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
111-84-2	**Nonane	5 - 10 %
108-88-3	**Toluene	1 - 5 %
98-82-8	**Cumene	1 - 5 %
100-41-4	**Ethylbenzene	1 - 5 %
110-54-3	**n-Hexane	1 - 5 %
71-43-2	**Benzene	0.1 - 1 %

Pennsylvania Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	90 - 100 %
25551-13-7	**Benzene, trimethyl-	5 - 10 %
95-63-6	**1,2,4-trimethylbenzene	5 - 10 %
1330-20-7	**Mixed Xylenes	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
111-84-2	**Nonane	5 - 10 %
108-88-3	**Toluene	1 - 5 %
98-82-8	**Cumene	1 - 5 %
100-41-4	**Ethylbenzene	1 - 5 %
110-54-3	**n-Hexane	1 - 5 %
71-43-2	**Benzene	0.1 - 1 %

New Jersey Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	90 - 100 %
25551-13-7	**Benzene, trimethyl-	5 - 10 %
95-63-6	**1,2,4-trimethylbenzene	5 - 10 %
1330-20-7	**Mixed Xylenes	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
111-84-2	**Nonane	5 - 10 %
108-88-3	**Toluene	1 - 5 %
98-82-8	**Cumene	1 - 5 %

Safety Data Sheet

100-41-4	**Ethylbenzene	1 - 5 %
110-54-3	**n-Hexane	1 - 5 %
71-43-2	**Benzene	0.1 - 1 %

California Prop 65	WARNING! This product contains a chemical known to the State of California to cause cancer.
91-20-3	**Naphthalene
98-82-8	**Cumene
100-41-4	**Ethylbenzene
71-43-2	**Benzene
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3	**Toluene
71-43-2	**Benzene

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

United States TSCA Inventory	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	n (Negative listing) (Not in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing) (On the inventory, or in compliance with the inventory)

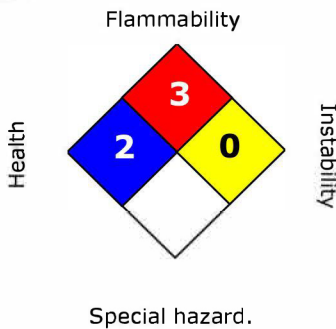
Safety Data Sheet

China. Inventory of Existing Chemical Substances in China (IECSC)	y (positive listing) (On the inventory, or in compliance with the inventory)
--	---

SECTION 16. OTHER INFORMATION

Version 2.1
Revision Date 06/19/2019

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

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

Our Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Legacy MSDS: R0000589

Material number:

782184, 675948, 640758, 581940, 554166, 554247, 554201, 554165, 86611, 547091, 547061, 547062, 550245, 508581, 70142, 102366, 102354, 70154, 69933, 102904, 87262, 102901, 157504, 503757, 39830, 20077, 20075, 86037, 722819, 20072, 16056759, 16056758, 102692, 70151, 102993, 20084, 20082, 16075682, 16002525, 765097, 687316, 661358, 85984, 69595, 20078, 102913, 20076, 502847

Safety Data Sheet

ACGIH	American Conference of Gov- ernment Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chem- ical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substanc- es List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Sub- stances 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 Admin- istration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Exist- ing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concen- tration 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 Reau- thorization Act.
IARC	International Agency for Re- search on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemi- cal Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substanc- es	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical In- ventory	UVCB	Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials In- formation System
LC50		Lethal Concentration 50%	