

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

1.1. Product identifier

Trade name or designation of the mixture	X-20/15, X-20/18
Registration number	-
Synonyms	None.
Issue date	23-July-2015
Version number	02
Revision date	09-February-2017
Supersedes date	23-July-2015

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

Identified uses	Industrial use.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Granitize Aviation
Address	11022 Vulcan Street South Gate, CA 90280-0893 United States

Division

Telephone	Telephone:	(562) 923-5438
e-mail	Not available.	
Contact person	Not available.	

1.4. Emergency telephone number	CHEMTREC:	(800) 424-9300
	CHEMTREC International:	00 1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

Physical hazards

Flammable liquids	Category 3	H226 - Flammable liquid and vapour.
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Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 1 (central nervous system)	H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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Hazard summary	May be ignited by heat, sparks or flames. May be fatal if swallowed and enters airways. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness and dizziness. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.
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2.2. Label elements

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

Contains:	Solvent Naphta (petroleum), Light Aromatic, Stoddard solvent
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Hazard pictograms



Signal word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

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.
P260	Do not breathe mist or vapour.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P331	Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P370 + P378	In case of fire: Use alcohol resistant foam, dry chemical powder, carbon dioxide for extinction.
P391	Collect spillage.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P235	Keep cool.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information None.

2.3. Other hazards Not 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
Stoddard solvent	60 - 80	8052-41-3 232-489-3	-	649-345-00-4	
Classification:					Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, STOT RE 1;H372, Aquatic Chronic 2;H411
Solvent Naphta (petroleum), Light Aromatic	9 - 35	64742-95-6 265-199-0	-	649-356-00-4	
Classification:					Flam. Liq. 1;H224, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Muta. 1B;H340, Carc. 1B;H350, Repr. 2;H361fd, Aquatic Chronic 2;H411
1,2,4-Trimethyl benzene	3,2 - 4,1	95-63-6 202-436-9	-	601-043-00-3	#
Classification:					Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335, Aquatic Chronic 2;H411

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. Causes damage to organs (central nervous system) through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

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. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. 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 Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s)

Industrial use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	MAK	500 mg/m ³
	STEL	200 ppm
		2000 mg/m ³ 800 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAK	100 mg/m ³
	STEL	20 ppm
		150 mg/m ³ 30 ppm

Belgium. Exposure Limit Values.

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1000 mg/m ³
	TWA	400 ppm
		500 mg/m ³ 200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
	TWA	20 ppm
Stoddard solvent (CAS 8052-41-3)		533 mg/m ³
		100 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1225 mg/m ³
	TWA	980 mg/m ³
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	MAC	999 mg/m ³
		400 ppm
	STEL	1250 mg/m ³ 500 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAC	100 mg/m ³
		20 ppm

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TWA	980 mg/m ³
		400 ppm

Czech Republic. OELs. Government Decree 361

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	Ceiling	1000 mg/m ³
	TWA	500 mg/m ³
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	Ceiling	250 mg/m ³
	TWA	100 mg/m ³

Denmark. Exposure Limit Values

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TLV	490 mg/m ³
		200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TLV	100 mg/m ³
		20 ppm
Stoddard solvent (CAS 8052-41-3)	TLV	145 mg/m ³
		25 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Material	Type	Value	Form
X-20/15, X-20/18 (CAS Mixture)	STEL	600 mg/m ³	
		250 ppm	
	TWA	350 mg/m ³ 150 ppm	
Components	Type	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³	
		20 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	1 mg/m ³	Vapour.
Stoddard solvent (CAS 8052-41-3)	STEL	600 mg/m ³	
	TWA	100 ppm 300 mg/m ³ 50 ppm	

Finland. Workplace Exposure Limits

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	620 mg/m ³
	TWA	250 ppm 500 mg/m ³ 200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	20 ppm 100 mg/m ³

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	VLE	980 mg/m ³
		400 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	VLE	250 mg/m ³
	VME	50 ppm 100 mg/m ³ 20 ppm

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

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TWA	500 mg/m ³
		200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	AGW	500 mg/m ³
		200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	AGW	100 mg/m ³
		20 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1225 mg/m ³
		500 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Material	Type	Value
	TWA	980 mg/m3 400 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	125 mg/m3
Stoddard solvent (CAS 8052-41-3)	STEL	25 ppm 720 mg/m3
	TWA	125 ppm 575 mg/m3 100 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	2000 mg/m3
	TWA	500 mg/m3
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TWA	490 mg/m3 200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
Stoddard solvent (CAS 8052-41-3)	TWA	20 ppm 145 mg/m3 25 ppm

Ireland. Occupational Exposure Limits

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	400 ppm
	TWA	200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
Stoddard solvent (CAS 8052-41-3)	TWA	20 ppm 573 mg/m3 100 ppm

Italy. OELs

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	400 ppm
	TWA	200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
Stoddard solvent (CAS 8052-41-3)	TWA	20 ppm 100 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	600 mg/m ³
	TWA	350 mg/m ³
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	10 mg/m ³

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	600 mg/m ³
		250 ppm
	TWA	350 mg/m ³ 150 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Netherlands. OELs (binding)

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	200 mg/m ³
	TWA	100 mg/m ³

Norway. Administrative Norms for Contaminants in the Workplace

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TLV	245 mg/m ³
		100 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TLV	100 mg/m ³
		20 ppm

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1200 mg/m ³
	TWA	900 mg/m ³
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	170 mg/m ³
	TWA	100 mg/m ³

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Components	Type	Value
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	STEL	1500 mg/m ³
	TWA	500 mg/m ³
Stoddard solvent (CAS 8052-41-3)	STEL	900 mg/m ³
	TWA	300 mg/m ³

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	400 ppm
	TWA	200 ppm
Components	Type	Value
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	400 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	500 mg/m ³
		203 ppm
	TWA	200 mg/m ³ 81 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	STEL	200 mg/m ³
	TWA	100 mg/m ³
Stoddard solvent (CAS 8052-41-3)	STEL	1000 mg/m ³
	TWA	700 mg/m ³

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TWA	500 mg/m ³
		200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	300 mg/m ³
		50 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
Stoddard solvent (CAS 8052-41-3)	STEL	600 mg/m ³

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
		100 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	TWA	500 mg/m ³

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	200 ppm 100 mg/m ³
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	20 ppm 100 mg/m ³
		20 ppm

Spain. Occupational Exposure Limits

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1000 mg/m ³

	TWA	400 ppm 500 mg/m ³ 200 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³ 20 ppm

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	600 mg/m ³
	TWA	250 ppm 350 mg/m ³ 150 ppm

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	170 mg/m ³
	TWA	35 ppm 120 mg/m ³ 25 ppm
Stoddard solvent (CAS 8052-41-3)	STEL	300 mg/m ³
	TWA	50 ppm 150 mg/m ³ 25 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1000 mg/m ³
	TWA	400 ppm 500 mg/m ³ 200 ppm

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	200 mg/m ³
	TWA	40 ppm 100 mg/m ³ 20 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	1100 mg/m ³
		300 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value
X-20/15, X-20/18 (CAS Mixture)	STEL	1250 mg/m ³
		500 ppm
	TWA	999 mg/m ³
		400 ppm
Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	125 mg/m ³
		25 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m ³
		20 ppm

Biological limit values**Germany. TRGS 903, BAT List (Biological Limit Values)**

Material	Value	Determinant	Specimen	Sampling time
X-20/15, X-20/18 (CAS Mixture)	50 mg/l	Aceton	Blood	*
	50 mg/l	Aceton	Urine	*
Components	Value	Determinant	Specimen	Sampling time
1,2,4-Trimethyl benzene (CAS 95-63-6)	400 mg/g	Dimethylbenzo esäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in urine	*

* - For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Material	Value	Determinant	Specimen	Sampling time
X-20/15, X-20/18 (CAS Mixture)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*

* - For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Material	Value	Determinant	Specimen	Sampling time
X-20/15, X-20/18 (CAS Mixture)	40 mg/l	Acetona	Urine	*

* - For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Material	Value	Specimen	Sampling time
X-20/15, X-20/18 (CAS Mixture)	25 mg/l	Urine	*
	25 mg/l	Blood	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.
8.2. Exposure controls	
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. 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 eyewash station.
Individual protection measures, such as personal protective equipment	
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing. Use of an impervious apron is recommended.
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. Provide easy access to water supply or an emergency shower.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using do not smoke. 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.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

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.
Odour	Slight.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	157,22 - 198,89 °C (315 - 390 °F)
Flash point	60,0 °C (140,0 °F) Tag closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Vapour pressure	1,8 (68 °F)
Vapour density	4,9 (Air= 1)
Relative density	0,78 (Water = 1)
Solubility(ies)	Slightly soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

VOC	774 g/l
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SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Skin irritation. May cause redness and pain. Causes damage to organs (central nervous system) through prolonged or repeated exposure.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test results
1,2,4-Trimethyl benzene (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LD50	Rat	18000 ppm, 4 hours
Oral		
LD50	Rat	2720 - 3960 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation Based on available data, the classification criteria are not met.

Skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)

Stoddard solvent (CAS 8052-41-3)

IARC Monographs. Overall Evaluation of Carcinogenicity

Stoddard solvent (CAS 8052-41-3)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance information No information available.

Other information Symptoms may be delayed.

SECTION 12: Ecological information

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

Components	Species	Test results
1,2,4-Trimethyl benzene (CAS 95-63-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 7,72 mg/l, 96 hours

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

Stoddard solvent (CAS 8052-41-3)

3,16 - 7,15

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil

This product is slightly water soluble and may disperse in soil.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.7. Additional information

Estonia Dangerous substances in groundwater Data

Stoddard solvent (CAS 8052-41-3)

Pesticides (total) 0,5 UG/L

Pesticides (total) 5 UG/L

Estonia Dangerous substances in soil Data

Stoddard solvent (CAS 8052-41-3)

Synthetic pesticides (total of active substances) 0,5 mg/kg

Synthetic pesticides (total of active substances) 20 mg/kg

Synthetic pesticides (total of active substances) 5 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. 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

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number

UN1268

14.2. UN proper shipping name

Petroleum distillates, n.o.s.

14.3. Transport hazard class(es)

Class

3

Subsidiary risk

-

Label(s)

3

Hazard No. (ADR)

30

Tunnel restriction code

D/E

14.4. Packing group

III

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number

UN1268

14.2. UN proper shipping name Petroleum distillates, n.o.s.
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN1268
14.2. UN proper shipping name Petroleum distillates, n.o.s.
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN1268
14.2. UN proper shipping name Petroleum distillates, n.o.s.
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 3L
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number UN1268
14.2. UN proper shipping name Petroleum distillates, n.o.s.
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant Yes
EmS F-E, S-E
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol 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 and II, as amended

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) 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

Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)

Stoddard solvent (CAS 8052-41-3)

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

Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)

Stoddard solvent (CAS 8052-41-3)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

1,2,4-Trimethyl benzene (CAS 95-63-6)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

TWA: Time weighted average.

STEL: Short term exposure limit.

MAC: Maximum Allowed Concentration

VLE: Exposure Limit Value

VME: Exposure Average Value

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

TLV: Threshold Limit Value.

References

ECHA C&L Inventory database GESTIS Substance Database

RTECS (2010)

ESIS (European chemical Substances Information System)

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 H-statements not written out in full under Sections 2 to 15

H224 Extremely flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious 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.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

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