TRAFFIC GREEN 6024 ISO

Safety Data Sheet

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

Revision date: 08/16/2021

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product name	: TRAFFIC GREEN 6024 ISO
Product form	: Mixture
Product code	: US1047584XX

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Product for industrial use only
Prohibited for use	: Applications involving permanent implantation into the body European class III medical devices FDA Class III medical devices Health Canada class IV Medical Devices Life-sustaining medical applications

1.3. Supplier

LyondellBasell Advanced Polymers, Inc.

LyondellBasell Tower, Suite 300

1221 McKinney St.

P.O. Box 2583

Houston, TX 77252-2583

Customer service phone : 1-800-54-RESIN

Regulatory information: ASI-Amer.Regulatory.Requests@lyondellbasell.com

1.4. Emergency telephone number

Emergency number	For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 CCN13495 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US and GHS-Canada classification

Flammable liquids Category 3	Flammable liquid and vapor
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
Skin sensitization, Category 1	May cause an allergic skin reaction
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Category 1	Causes damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS-US and GHS-Canada labeling

Hazard pictograms (GHS-US and GHS-Canada) :

Signal word (GHS-US and GHS-Canada) : Danger

Hazard statements (GHS-US and GHS-Canada) : Flammable liquid and vapor
Causes skin irritation

		May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation Causes damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US and GHS-Canada)	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, sparks, open flames, hot surfaces Keep cool. Do not breathe dust, fume, gas, mist, spray, vapors. Wash face, hands, hands, forearms and face thoroughly after handling Avoid release to the environment. Wear eye protection, face protection, protective gloves Immediately call a doctor, a POISON CENTER. In case of fire: Use ABC-powder, carbon dioxide (CO2), dry extinguishing powder, dry sand, foam to extinguish. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS-US and GHS-Canada)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Styrene	CAS No: 100-42-5	30 – 60
Talc, Magnesium Silicate	CAS No: 14807-96-6	10 – 30
2-Methyl-2-propenoic acid, methyl ester	CAS No: 80-62-6	1 – 5
Titanium Dioxide	CAS No: 13463-67-7	1 – 5

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	:	Move the affected person away from the contaminated area. Immediately consult a doctor/medical service. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label . Do not leave affected person unattended.
First-aid measures after inhalation	:	Call a physician immediately. If unconscious place in recovery position and seek medical advice.
First-aid measures after skin contact	:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. If symptoms persist, call a physician.
First-aid measures after eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If eye irritation persists, consult a specialist.
First-aid measures after ingestion	:	In all cases of doubt, or when symptoms persist, seek medical advice. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not give milk.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Skin irritation, dermatitis and sensitization. May cause sensitization of susceptible persons by skin contact.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

If you feel unwell, seek medical advice.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Do not allow run-off from fire fighting to enter drains or water courses.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Comply with local regulations for disposal.
Protection during firefighting	: In case of fire: Wear self-contained breathing apparatus.
Other information	: Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing.
Emergency procedures	: Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to a safe area. Special attention should be given to low areas/pits where flammable vapors can accumulate.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Collect the residue by means of a non-combustible absorbent material. Collect all waste in suitable and labeled containers and dispose according to local legislation.
Methods for cleaning up	: Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Store in a well-ventilated place. Keep container tightly closed.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Use isolated drainage to prevent discharge to soil. Take precautionary measures against static discharge. The product may charge electrostatically: use earthling leads when transferring from one container to another. In order to rule out potential electrostatic discharge production, the system must be adequately grounded.

Precautions for safe handling	:	Do not exceed the occupational exposure limits (OEL). Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	:	Do no eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened should be properly resealed and kept upright to prevent leakage.
Storage temperature	:	< 25 °C
Heat-ignition	:	This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g, static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been. Explosion-proof electrical equipment and grounded lighting. Electrical equipment should be protected to the appropriate standard.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TRAFFIC GREEN 6024 ISO	
No additional information available	

Styrene (100-42-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	85 mg/m³
ACGIH OEL TWA [ppm]	20 ppm
ACGIH OEL STEL	170 mg/m³
ACGIH OEL STEL [ppm]	40 ppm
Remark (ACGIH)	CNS impair; URT irr; peripheral
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
BEI (BLV)	400 mg/g Kreatinin (Medium: urine - Time: end of shift - Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific) 40 µg/l (Medium: urine - Time: end of shift - Parameter: Styrene)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	420 mg/m³
OSHA PEL (TWA) [2]	100 ppm
OSHA PEL C [ppm]	200 ppm
Remark (OSHA)	(Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 600 ppm 5 mins. in any 3 hrs.)
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	700 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	215 mg/m³
NIOSH REL TWA [ppm]	50 ppm

Styrene (100-42-5)	
NIOSH REL (STEL)	425 mg/m³
NIOSH REL STEL [ppm]	100 ppm

Titanium Dioxide (13463-67-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m³
Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	15 mg/m³
USA - IDLH - Occupational Exposure Limits	
IDLH	5000 mg/m³

Talc, Magnesium Silicate (14807-96-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)
ACGIH chemical category	Not Classifiable as a Human Carcinogen containing no asbestos fibers
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [2]	20 mppcf
Remark (OSHA)	(3) See Table Z-3.
USA - IDLH - Occupational Exposure Limits	
IDLH	1000 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	2 mg/m³

2-Methyl-2-propenoic acid, methyl ester (80-62-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	205 mg/m³
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL	410 mg/m³
ACGIH OEL STEL [ppm]	100 ppm

2-Methyl-2-propenoic acid, methyl ester (80-62-6)	
Remark (ACGIH)	URT & eye irr; body weight eff; DSEN; RSEN; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)
ACGIH chemical category	dermal sensitizer, Not Classifiable as a Human Carcinogen
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	410 mg/m³
OSHA PEL (TWA) [2]	100 ppm
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	1000 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	410 mg/m³
NIOSH REL TWA [ppm]	100 ppm

8.2. Appropriate engineering controls

Environmental exposure controls : Do not empty into drains.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Chemical resistant safety shoes. Overall.

Hand protection:

Wear suitable gloves. PVC gloves. A waterproof cream can protect exposed skin parts. Do not use if contact has already taken place. In the case of wanting to use the gloves again, clean them before taking off and air them well. Before removing gloves clean them with soap and water. Replace when worn.

Eye protection:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Safety glasses with side shields. Do not wear contact lenses

Skin and body protection:

Wear anti-static footwear and clothing. Tight protective clothing required. Only wear fitting, comfortable and clean protective clothing. Wash clothing before re-using. Avoid contact with skin. May cause sensitization of susceptible persons by skin contact

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode. Consult supplier for specific recommendations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : GRN - Green
Odor : Pungent

Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: 28.33 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: 4.5
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 20.5 mm²/s
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

vapors may form explosive mixture with air.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents. Peroxides.

10.6. Hazardous decomposition products

Stable under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Styrene (100-42-5)	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	5000 mg/kg body weight

Styrene (100-42-5)
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Titanium Dioxide (13463-67-7)
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Talc, Magnesium Silicate (14807-96-6)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Pennsylvania - RTK (Right to Know) List

2-Methyl-2-propenoic acid, methyl ester (80-62-6)
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Illinois - Toxic Air Contaminants
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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

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Abbreviations and acronyms	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SVHC	Substance of very high concern
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("MARPOL" is short for marine pollution and 73/78 short for the years 1973 and 1978.)
IBC	The International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
OSHA	Occupational Safety Health Administration
TWA	Time Weighted Average
STEL	Occupational Exposure Limits - Short Term Exposure Limits (STELs)
ACGIH	American Conference of Government Industrial Hygienists
TLV	Threshold Limit Value
IARC	International Agency for Research on Cancer
ED	Endocrine disrupting properties

Indication of changes:			
Version	**Indication of changes**	**Change**	**Comments**