

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : SCIGRIP SG230HV-40 GREY
Type of product : adhesives
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial use
Use of the substance/mixture : Adhesives, binding agents
Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

Restrictions on use : Adhesives, sealants

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Scigrip Adhesives Ltd.
Unit 22 Bentall Business Park
Glover Road
NE37 3JD Washington - U.K.
T +44 (0) 191 419 6444 - F +44 (0) 191 419 6445
sds-europe@ipscorp.com - www.scigripadhesives.com

Only Representative

Ricardo Nederland BV
Catharijnesingel 33
3511 GC Utrecht
Netherlands

1.4. Emergency telephone number

Emergency number : CHEMTEL 001 813-248-0573 (International)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Contains	: METHYL METHACRYLATE; STYRENE; Methacrylic acid; TRISODIUM NITRILOTRIACETATE; C12, C14 ALKYL METHACRYLATE; MALEIC ANHYDRIDE; DIBENZOYL PEROXIDE
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe dusts or mists. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . 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. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P273 - Avoid release to the environment.

2.3. Other hazards

PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL METHACRYLATE substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498-28	≥ 20 – < 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
C12, C14 ALKYL METHACRYLATE	CAS-No.: 90551-76-1 EC-No.: 292-094-7	≥ 1 – < 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
STYRENE	CAS-No.: 100-42-5 EC-No.: 202-851-5 EC Index-No.: 601-026-00-0 REACH-no: 01-2119457861-32	≥ 1 – < 5	Flam. Liq. 3, H226 Repr. 2, H361d Acute Tox. 4 (Inhalation), H332 STOT RE 1, H372 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Methacrylic acid	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884-26	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DIBENZOYL PEROXIDE	CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617-008-00-0 REACH-no: 05-2116297715-31	< 1	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits		
Name	Product identifier	Specific concentration limits
Methacrylic acid	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884-26	(1 ≤C < 3) Skin Irrit. 2, H315 (1 ≤C < 3) STOT SE 3, H335 (3 ≤C < 10) Skin Irrit. 2, H315 (3 ≤C < 10) Eye Dam. 1, H318 (3 ≤C < 10) STOT SE 3, H335 (10 ≤C < 25) Acute Tox. 4 (Oral), H302 (10 ≤C < 25) Acute Tox. 4 (Dermal), H312 (10 ≤C < 25) Acute Tox. 4 (Inhalation), H332 (10 ≤C < 25) Skin Corr. 1A, H314 (10 ≤C < 25) STOT SE 3, H335 (25 ≤C < 100) Acute Tox. 3 (Oral), H301 (25 ≤C < 100) Acute Tox. 3 (Dermal), H311 (25 ≤C < 100) Acute Tox. 3 (Inhalation), H331 (25 ≤C < 100) Skin Corr. 1A, H314 (25 ≤C < 100) STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Get medical advice/attention.

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

Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Do not use a heavy water stream.

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

5.3. Advice for firefighters

- Precautionary measures fire : Eliminate all ignition sources if safe to do so.
- Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so.
- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not handle until all safety precautions have been read and understood.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Keep upwind. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
- Measures in case of dust release : Do not inhale dusts, particulates and spray mist when using this preparation.

6.1.2. For emergency responders

- Protective equipment : Use self-contained breathing apparatus and chemically protective clothing.
- Emergency procedures : Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand/earth.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth.
- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station.
- Handling temperature : 13 – 27 °C
- Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.
- Incompatible products : Oxidizing agent. Strong acids.
- Incompatible materials : Sources of ignition.
- Storage temperature : 13 – 27 °C
- Storage area : Store in a well-ventilated place. Store away from heat.
- Special rules on packaging : Keep only in original container.

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Adhesives, Sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

METHYL METHACRYLATE (80-62-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methyl methacrylate
IOEL TWA [ppm]	50 ppm
IOEL STEL [ppm]	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
Belgium - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle # Methylmethacrylaat
OEL TWA	208 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	416 mg/m ³
OEL STEL [ppm]	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Метилметакрилат
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Notes	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	Metil-metakrilat; metil-2-metil-prop-2-enoat; metil-2-metil-propenoat
GVI (OEL TWA) [2]	50 ppm
KGVI (OEL STEL) [ppm]	100 ppm
Naznake (HR)	Direktiva: 2009/161/EU. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)), alergen kože (tvar koja može izazvati alergijsku reakciju na koži (H317))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Czech Republic - Occupational Exposure Limits	
Local name	Methylmetakrylát (Methylester 2-methyl-2-propenové kyseliny)
PEL (OEL TWA)	50 mg/m ³
PEL (OEL TWA) [ppm]	12 ppm

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
NPK-P (OEL C)	150 mg/m ³
NPK-P (OEL C) [ppm]	36 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůže, S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Methylmethacrylat (Methacrylsyremethylester; 2-Methylpropensyremethylester)
OEL TWA [1]	102 mg/m ³
OEL TWA [2]	25 ppm
Anmærkninger (DK)	H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 698 af 28/05/2020
Estonia - Occupational Exposure Limits	
Local name	Metüülmetakrülaat (metüül-2-metüülpropenaat)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Remark (ET)	S (Sensibiliseeriv aine)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Metyylimetakrylaatti
HTP (OEL TWA) [1]	42 mg/m ³
HTP (OEL TWA) [2]	10 ppm
HTP (OEL STEL)	210 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle
VME (OEL TWA)	205 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	410 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Methylmethacrylat
AGW (OEL TWA) [1]	210 mg/m ³
AGW (OEL TWA) [2]	50 ppm
Peak exposure limitation factor	2(I)
Remark	DFG;EU;Y
Regulatory reference	TRGS900

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
Gibraltar - Occupational Exposure Limits	
Name of agent	Methyl methacrylate
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Μεθακρυλικός μεθυλεοτέρας
OEL TWA [ppm]	100 ppm
OEL STEL [ppm]	200 ppm
Regulatory reference	Π.Δ. 12/2012 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	METIL-METAKRILÁT
AK (OEL TWA)	208 mg/m ³
CK (OEL STEL)	415 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU3 (2009/161 /EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Methyl methacrylate
OEL TWA [2]	50 ppm
OEL STEL [ppm]	100 ppm
Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2020
Italy - Occupational Exposure Limits	
Local name	Metacrilato di metile
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metilmetakrilāts (2-metilpropēnskābes metilesteris, metil-2-metilpropeonāts)

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Metilmetakrilatas
IPRV (OEL TWA)	208 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	416 mg/m ³
TPRV (OEL STEL) [ppm]	100 ppm
Remark (LT)	J (jautrinantis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Mémorial A N° 684 de 2018 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	Methyl methacrylate
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)
Netherlands - Occupational Exposure Limits	
Local name	Methylmethacrylaat
MAC-TGG (OEL TWA)	205 mg/m ³
MAC-15 (OEL STEL)	410 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Metakrylan metylu
NDS (OEL TWA)	100 mg/m ³
NDSCh (OEL STEL)	300 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Metacrilato de metilo
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Remark	S (Agente com potencial para produzir sensibilização); A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Metacrilat de metil/Metil 2-metilpropenoat

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
OEL TWA	205 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	410 mg/m ³
OEL STEL [ppm]	100 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 157/2020)
Serbia - Occupational Exposure Limits	
Local name	метил-метакрилат
OEL TWA	200 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17)
Slovakia - Occupational Exposure Limits	
Local name	Metylmetakrylát (metyl 2-etylpropenoát)
NPHV (OEL TWA) [2]	50 ppm
NPHV (OEL STEL) [ppm]	100 ppm
Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	metilmetakrilat (metil 2-metilprop-2-enoat; metil 2-metilpropenoat)
OEL TWA	210 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	420 mg/m ³
OEL STEL [ppm]	100 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Metacrilato de metilo
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL) [ppm]	100 ppm
Notes	Sen (Sensibilizante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metylmetakrylat
NGV (OEL TWA)	200 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	400 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
Anmärkning (SE)	M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Methyl methacrylate
WEL TWA (OEL TWA) [1]	208 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Metýlmetakrílat (metakrílsýrumetýlester, 2-metýlprópensýrumetýlester)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1296/2012)
Norway - Occupational Exposure Limits	
Local name	Metylmetakrylat (Metakrylsyremetylester)
Grenseverdi (OEL TWA) [1]	100 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	400 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	100 ppm
Merknader (NO)	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle / Methylmethacrylat [Methacrylsäuremethylester]
MAK (OEL TWA) [1]	210 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	420 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
Critical toxicity	Poumons, VRS, Yeux / Lunge, OAW, Auge
Notation	S, SS _C / S, SS _C

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
Remark	INRS, NIOSH
Regulatory reference	www.suva.ch, 01.01.2021
STYRENE (100-42-5)	
Belgium - Occupational Exposure Limits	
Local name	Styrène (monomère) # Styreen (monomeer)
OEL TWA	108 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	216 mg/m ³
OEL STEL [ppm]	50 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Стирен
OEL TWA	85 mg/m ³
OEL STEL	215 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	Stiren
GVI (OEL TWA) [1]	430 mg/m ³
GVI (OEL TWA) [2]	100 ppm
KGVI (OEL STEL)	1080 mg/m ³
KGVI (OEL STEL) [ppm]	250 ppm
Naznake (HR)	Koža (razvrstana kao tvar koja nadražuje kožu (H315))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Czech Republic - Occupational Exposure Limits	
Local name	Styren (Ethenylbenzen; Fenylethylen; Vinylbenzen)
PEL (OEL TWA)	100 mg/m ³
PEL (OEL TWA) [ppm]	23 ppm
NPK-P (OEL C)	400 mg/m ³
NPK-P (OEL C) [ppm]	92 ppm
Remark (CZ)	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, I - dráždí sliznice (oči, dýchací cesty), respektive kůže, P - u látky nelze vyloučit závažné pozdní účinky (s větou H372, H373).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STYRENE (100-42-5)	
Denmark - Occupational Exposure Limits	
Local name	Styren (Ethenylbenzen; Phenylethen; Vinylbenzen)
OEL C	105 mg/m ³
OEL C [ppm]	25 ppm
Anmærkninger (DK)	H (betyder, at stoffet kan optages gennem huden); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Estonia - Occupational Exposure Limits	
Local name	Stüreen (fenüületeen, vinüülbenseen)
OEL TWA	90 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	200 mg/m ³
OEL STEL [ppm]	50 ppm
Remark (ET)	A (Naha kaudu kergesti imenduv aine)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Styreeni
HTP (OEL TWA) [1]	86 mg/m ³
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	430 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
Huomautus (FI)	Melu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Styrène
VME (OEL TWA)	100 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	215 mg/m ³
VLE (OEL C/STEL) [ppm]	46.6 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée; Ces valeurs sont assorties de la mention "bruit" indiquant la possibilité d'une atteinte auditive en cas de co-exposition au bruit.
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Styrol
AGW (OEL TWA) [1]	86 mg/m ³
AGW (OEL TWA) [2]	20 ppm
Peak exposure limitation factor	2(II)
Remark	DFG;Y

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STYRENE (100-42-5)	
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Στυρόλιο
OEL TWA	425 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	1050 mg/m ³
OEL STEL [ppm]	250 ppm
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	SZTIROL
AK (OEL TWA)	86 mg/m ³
CK (OEL STEL)	172 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat), BEM (biológiai expozíciós mutató); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Styrene [Phenylethylene, Vinyl benzene]
OEL TWA [1]	85 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	170 mg/m ³
OEL STEL [ppm]	40 ppm
Regulatory reference	Chemical Agents Code of Practice 2020
Ireland - Biological limit values	
Local name	Propylene Oxide
BLV	3 Parameter: N-(3-hydroxypropyl) valine - Medium: blood haemoglobin
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
Latvia - Occupational Exposure Limits	
Local name	Stirols (vinilbenzols)
OEL TWA	10 mg/m ³
OEL STEL	30 mg/m ³
Remark (LV)	letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
Lithuania - Occupational Exposure Limits	
Local name	Stirenas (stirolas)
IPRV (OEL TWA)	90 mg/m ³
IPRV (OEL TWA) [ppm]	20 ppm
TPRV (OEL STEL)	200 mg/m ³

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STYRENE (100-42-5)	
TPRV (OEL STEL) [ppm]	50 ppm
Remark (LT)	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą); Projektuojant naujus objektus ar keičiant senus, reikia stengtis užtikrinti, kad stireno poveikis per darbo dieną būtų priimtinas laikantis IPRD 10 ppm koncentracijos.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	Styren
NDS (OEL TWA)	50 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Estireno, monómero
OEL TWA [ppm]	20 ppm
OEL STEL [ppm]	40 ppm
Remark	A4 (Agente não classificável como carcinogénico no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Stiren
OEL TWA	50 mg/m ³
OEL TWA [ppm]	12 ppm
OEL STEL	150 mg/m ³
OEL STEL [ppm]	35 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Styrén
NPHV (OEL TWA) [1]	90 mg/m ³
NPHV (OEL TWA) [2]	20 ppm
NPHV (OEL STEL)	200 mg/m ³
NPHV (OEL STEL) [ppm]	50 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	stiren
OEL TWA	86 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	172 mg/m ³
OEL STEL [ppm]	40 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STYRENE (100-42-5)	
Spain - Occupational Exposure Limits	
Local name	Estireno
VLA-ED (OEL TWA) [1]	86 mg/m³
VLA-ED (OEL TWA) [2]	20 ppm
VLA-EC (OEL STEL)	172 mg/m³
VLA-EC (OEL STEL) [ppm]	40 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), ae (Alterador endocrino. Hay una serie de sustancias utilizadas en la industria, la agricultura y los bienes de consumo de las que se sospecha que interfieren con los sistemas endocrinos de los seres humanos y de los animales y que son causantes de perjuicios para la salud como el cáncer, alteraciones del comportamiento y anomalías en la reproducción. Tales sustancias se denominan “alteradores endocrinos”. [Aplicación de la estrategia comunitaria en materia de alteradores endocrinos-sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales-COM (1999) 706. Comisión de las Comunidades Europeas, COM (2001) 262 final, Bruselas 14.06.2001]. En el caso del ser humano, algunas vías posibles de exposición a alteradores endocrinos son la exposición directa en el lugar de trabajo o a través de productos de consumo como alimentos, ciertos plásticos, pinturas, detergentes y cosméticos, o indirecta a través del medio ambiente (aire, agua y suelo). [Estrategia comunitaria en materia de alteradores endocrinos (sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales). Comisión de las Comunidades Europeas, COM (1999) 706 final, Bruselas 17.12.1999]. Los valores límite asignados a estos agentes no se han establecido para prevenir los posibles efectos de alteración endocrina, lo cual justifica una vigilancia adecuada de la salud).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Styren
NGV (OEL TWA)	43 mg/m³
NGV (OEL TWA) [ppm]	10 ppm
KTV (OEL STEL)	86 mg/m³
KTV (OEL STEL) [ppm]	20 ppm
Anmärkning (SE)	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Styrene
WEL TWA (OEL TWA) [1]	430 mg/m³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1080 mg/m³
WEL STEL (OEL STEL) [ppm]	250 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Stýren (etenýlbensen, fenýleten, vínýlbensen)

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STYRENE (100-42-5)	
OEL STEL	105 mg/m ³
OEL STEL [ppm]	25 ppm
Notes (IS)	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Styren (Vinylbenzen)
Grenseverdi (OEL TWA) [1]	105 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Merknader (NO)	M: Kjemikalier som skal betraktes som mutagene.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
Local name	Styrène / Styrol
MAK (OEL TWA) [1]	85 mg/m ³
MAK (OEL TWA) [2]	20 ppm
KZGW (OEL STEL)	170 mg/m ³
KZGW (OEL STEL) [ppm]	40 ppm
Critical toxicity	VRS, Yeux, SN / OAW, Auge, NS
Notation	SS _C , O ^B , B / SS _C , O ^L , B
Remark	HSE, NIOSH, DFG, OSHA
Regulatory reference	www.suva.ch, 01.01.2021
Switzerland - Biological limit values	
Local name	Styrène / Styrol
BAT	600 mg/g creatinine (Paramètre biologique: Acide mandélique + acide phénylglyoxylique; Substrat d'examen: Urine; Moment du prélèvement: Fin de l'exposition, de la période de travail.) / (Biologischer Parameter: Mandelsäure + Phenylglyoxylsäure; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Expositionsende, bzw. Schichtende.)
Remark	v. aussi éthylbenzène / s. auch Ethylbenzol
Regulatory reference	Ordonnance 832.30 (OPA), article 50 al. 3, www.suva.ch/valeurs-limites / Verordnung 832.30 (VUV), Art. 50 Abs. 3, www.suva.ch/grenzwerte

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection	
Type	Standard
Disposable gloves	EN 374-2

Hand protection:

Nitrile rubber gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	< 0.7	2 (< 1.5)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	ABEK- Hg/P3	Vapour protection	EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Grey.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -48 °C Based on MMA
Freezing point	: No data available
Boiling point	: 100.5 °C Based on MMA
Flash point	: 12 °C
Auto-ignition temperature	: 421 °C Based on MMA
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.99
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

May liberate toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

METHYL METHACRYLATE (80-62-6)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	29.8 mg/l 4hrs
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
STYRENE (100-42-5)	
LD50 oral	> 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	11.8 mg/l/4h
Methacrylic acid (79-41-4)	
LD50 oral rat	1320 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	500 – 1000 mg/kg bodyweight Animal: rabbit, Guideline: other:dermal toxicity screening
LC50 Inhalation - Rat	7.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
C12, C14 ALKYL METHACRYLATE (90551-76-1)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal	> 3000 mg/kg
DIBENZOYL PEROXIDE (94-36-0)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause respiratory irritation.
METHYL METHACRYLATE (80-62-6)	
STOT-single exposure	May cause respiratory irritation.
Methacrylic acid (79-41-4)	
STOT-single exposure	May cause respiratory irritation.
C12, C14 ALKYL METHACRYLATE (90551-76-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
STYRENE (100-42-5)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat
LOAEC (inhalation, rat, vapour, 90 days)	0.21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat
NOAEL (subchronic, oral, animal/male, 90 days)	10 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Methacrylic acid (79-41-4)

LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
---------------------------------------	---

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

STYRENE (100-42-5)

LC50 - Fish [1]	10 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	4.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	6.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2.06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1.01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Methacrylic acid (79-41-4)

LC50 - Fish [1]	85 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 130 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	45 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

C12, C14 ALKYL METHACRYLATE (90551-76-1)

LC50 - Fish [1]	> 10000 mg/l
-----------------	--------------

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

DIBENZOYL PEROXIDE (94-36-0)

LC50 - Fish [1]	0.0602 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.11 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

SCIGRIP SG230HV-40 GREY

PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Industrial waste.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1133	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
UN 1133, II, (D/E), ENVIRONMENTALLY HAZARDOUS	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
	Not applicable	Not applicable	Not applicable	Not applicable

14.4. Packing group

II	Not applicable	Not applicable	Not applicable	Not applicable
----	----------------	----------------	----------------	----------------

14.5. Environmental hazards

Dangerous for the environment: Yes	Not applicable	Not applicable	Not applicable	Not applicable
------------------------------------	----------------	----------------	----------------	----------------

No supplementary information available

14.6. Special precautions for user

Overland transport

Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

France

Occupational diseases

Code	Description
RG 66	Occupational rhinitis and asthma
RG 82	Conditions caused by methyl methacrylate

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

- ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
- SZW-lijst van kankerverwekkende stoffen : C12, C14 ALKYL METHACRYLATE is listed
- SZW-lijst van mutagene stoffen : C12, C14 ALKYL METHACRYLATE is listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : STYRENE is listed

Denmark

- Class for fire hazard : Class I-1
- Store unit : 1 liter
- Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

- Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

Revision - See : *.

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms	
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

Data sources : ECHA (European Chemicals Agency).

Full text of H- and EUH-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

SCIGRIP SG230HV-40 GREY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements	
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. B	Organic Peroxides, Type B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.