Safety Data Sheet

VIAL

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Creation Date : 2019/01/18
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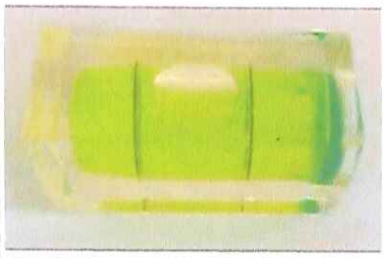
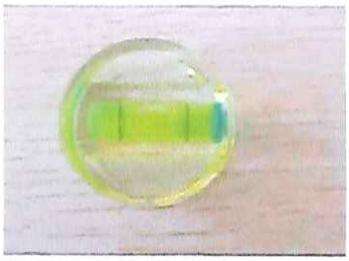
*Prepared according to UN GHS (the 7th revised edition)

1 Identification of the chemical and supplier

Product identifier

Product Name	31477,45868,68736,75042,75070,75071,75073,75101,75102,75105,75106,75107,75111,75112
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
Product photos	 

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

Relevant identified uses	Mainly used as measuring tool.
Uses advised against	No special note.

Details of the supplier of the Safety Data Sheet

Name of the company	Draper Tools Ltd
Address of the company	Hursley Rd, Chandlers Ford, Eastleigh, Hants.
Post code	SO53 1YF
Telephone number	Draper Helpline +44 (0) 2380 494344
	Opening hours 8:30-17:00 Monday – Friday.

2 Hazards identification

Under normal circumstances, the product is harmless. If it comes into contact with the liquid in the product, refer to the following:

Hazard classification according to GHS

Flammable Liquids	Category 4
Aspiration Hazard	Category 1
Skin Corrosion/Irritation	Category 3

Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation

Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P332+P313	If skin irritation occurs: Get medical advice/attention.

Storage

P403	Store in a well-ventilated place.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

Hazard description

Physical and chemical hazards

	Combustible liquids in case of flame and high fever.

Health hazards

Inhaled	According to the material form, it is not the normal way of contacting. May be fatal if swallowed and enters airways during the course of normal handling.
Ingestion	Due to physical form of this product, considered an unlikely route of entry in commercial/industrial environments. Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	No harm in general situation. The product can cause mild skin irritation following direct contact with the skin.
Eye	This product may cause temporary discomfort following direct contact with the eye.

Environmental hazards

	Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
Acrylic grain			
Poly(methyl methacrylate)	9011-14-7	232-674-9	100
Fischer-Tropsch alkane fraction			
C11-C13 Isoalkanes	-	-	100
Plug			
ABS Resins	9003-56-9	618-371-8	100

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1	Cumulative effects may result following exposure.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Firefighting measures

Extinguishing media

Suitable extinguishing media	Dry chemical, carbon dioxide or alcohol-resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter or spread fire.

Specific hazards arising from the substance or mixture

1	May expansion or decompose explosively when heated or involved in fire.
2	Development of hazardous combustion gases or vapor possible in the event of fire.
3	Slight fire hazard when exposed to heat or flame.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Suppress (knock down) gases/vapor/mists with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist or gas.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
2	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

◆ Occupational Exposure limit values

Occupational Exposure limit values	No information available

◆ Biological limit values

Biological limit values	No information available

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air(Series standard).

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.
5	Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	Wear protective gloves(such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9 Physical and chemical properties

Physical and chemical properties

Appearance	Solid, see figure
Odor	No information available
Odor threshold	No information available
pH	Not applicable
Melting point/freezing point(℃)	No information available
Initial boiling point and boiling range(℃)	190~220 (Fischer-Tropsch alkane fraction)
Flash point(Closed cup,℃)	76 (Fischer-Tropsch alkane fraction)
Evaporation rate	Not applicable
Flammability	Combustible
Upper/lower explosive limits[%(v/v)]	Upper limit : 6.5 ; Lower limit : 0.6 (Fischer-Tropsch alkane fraction)
Vapor pressure	0.6hPa (20℃, Fischer-Tropsch alkane fraction)
Relative vapour density(Air=1)	Not applicable
Relative density(Water=1)	0.7440 (Fischer-Tropsch alkane fraction)
Solubility(mg/L)	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition	> 230 (Fischer-Tropsch alkane fraction)

temperature(℃)	
Decomposition temperature(℃)	No information available
Kinematic viscosity	1.4mm²/s (40℃, Fischer-Tropsch alkane fraction)
Particle characteristics	No information available

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Strong oxidizing agent. (Only for liquids in the product)
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Acute toxicity	No information available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	9011-14-7	Poly(methyl methacrylate)	Category 3	Not Listed
2	-	C11-C13 Isoalkanes	Not Listed	Not Listed
3	9003-56-9	ABS Resins	Not Listed	Not Listed

Others

	VIAL
Skin corrosion/irritation	Causes mild skin irritation
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	May be fatal if swallowed and enters airways
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Poly(methyl methacrylate)	9011-14-7	LC_{50} : 43.382mg/L (96h)(Fish)	No information available	No information available
ABS Resins	9003-56-9	LC_{50} : 11.5mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available

Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
ABS Resins	9003-56-9	Low(Half-life = 46 days)	Low(Half-life = 7.88 days)
Poly(methyl methacrylate)	9011-14-7	Low(Half-life = 56 days)	Low(Half-life = 0.4 days)

Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
ABS Resins	9003-56-9	Low	BCF=48
Poly(methyl methacrylate)	9011-14-7	Low	Log K_{ow}=1.2751

Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
ABS Resins	9003-56-9	Low	8.3
Poly(methyl methacrylate)	9011-14-7	Low	10.14

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Poly(methyl methacrylate)	9011-14-7	not PBT/vPvB
ABS Resins	9003-56-9	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1and 13.2.

14 Transport information

Label and Mark

Transporting Label	Not applicable

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

ICAO/IATA-DGR

ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Poly(methyl methacrylate)	×	√	√	√	√	√	√	√	√
C11-C13 Isoalkanes	×	×	×	×	×	×	×	×	×
ABS Resins	×	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List
【IECSC】 China Inventory of Existing Chemical Substances
【NZIoC】 New Zealand Inventory of Chemicals
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
【KECI】 Existing and Evaluated Chemical Substances
【AICS】 Australia Inventory of Chemical Substances
【ENCS】 Existing And New Chemical Substances

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

16 Others

Information on revision

Creation Date	2019/01/18
Revision Date	2019/01/18
Reason for revision	-

Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2]IARC , website: http://www.iarc.fr/.
[3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5]NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7]U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.

[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC_{50} - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD_{50} - Lethal Dose 50%

EC_{50} - Effective Concentration 50%

POW - Partition coefficient Octanol: Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.