

Material Safety Data Sheet (MSDS)

VIAL

Version : V1.0.0.1

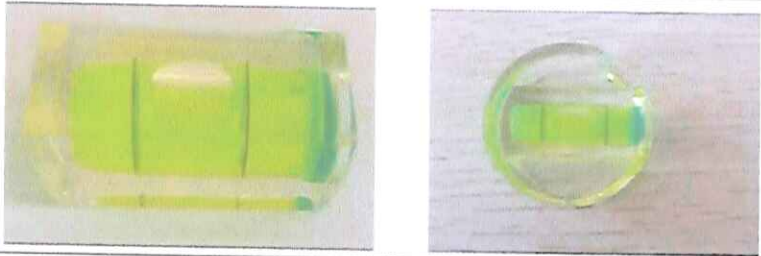
Creation Date : 2015/05/19

Revision Date : 2015/05/19

* According to UN GHS (the 5th revised edition)

1 Identification of the chemical and supplier

Product identifier

Product Name	52145, 75042, 75070, 75071, 75073, 75101, 75102, 75105, 75106, 75107, 75111, 75112 Vials
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
Product Picture	

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

Relevant identified uses	Mainly used as measuring tool.
Uses advised against	No information available

Details of the supplier of the Material Safety Data Sheet

Name of the company	Draper Tools Ltd
Address of the company	Hursley Road, Chandlers Ford, Eastleigh, Hampshire
Post code	SO53 1YF
Telephone number	(Draper Helpline) +44 (0) 2380 494344
Fax number	
E-mail address	


2 Hazards identification

No harm at the normal use, If contact the liquid in the product, reference as follows:

Hazard classification according to GHS

Flammable liquids	Category 4
Aspiration hazard	Category1
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

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
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.
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Hazard description (no harm, only for the liquid of the product)

Physical and chemical hazards	Combustible liquid.
Health hazards	<p>The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.</p> <p>Intaking of trace substances in the workplace is not considered to be dangerous.</p> <p>Non healing wounds, abrasions or irritated skin should not be exposed to this matter.</p> <p>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.</p> <p>Based on the experience of similar material, the contact material may lead to a decline in human fertility, but does not produce toxic effects of other.</p>
Environmental hazards	Harmful to the environment

3 Composition/information on ingredients

Component	CAS No.	EC No.	Hazard classification according to GHS
ACRYREX			
PMMA resin	9011-14-7	—	Not Classified
NACOSOL			
C11-C13 isoalkanes	—	—	Flammable liquids, Category 4,H227 Aspiration hazard, Category 1,H304 Skin corrosion/irritation, Category 3,H316
PLUG			
ABS resin	9003-56-9	—	Not Classified

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this Material safety data sheet (MSDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if fell 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 fell 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

- In general, no symptoms or effects, both acute and delayed.

Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- Symptoms may be delayed.

5 Firefighting measures

Extinguishing media

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

Specific hazards arising from the substance or mixture

- Combustible.
- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus and full protective gear.
2	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used.
3	Uninvolved persons should evacuate to a safe place.
4	In case of fire in the surroundings, keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.
3	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Do not let product enter drains.

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. Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
3	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 .

8 Exposure controls/personal protection

Control parameters

◆ Occupational Exposure limit values

Occupational Exposure limit values	No information available
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◆ Biological limit values

Biological limit values	No information available
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◆ 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

| 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.

| Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand protection	Protective gloves (such as butyl rubber) , approved by EN 374(EU).
Respiratory protection	Use appropriate respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: low boiling organic solvent, Type AX, Brown, conforming to EN371.
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 picture
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°C (NACOSOL)
Flash point	76°C (NACOSOL)
Evaporation rate	No information available
Flammability(solid, gas)	Not applicable
Upper/lower explosive limits	Upper : 6.5% (V) ; Lower : 0.6% (V) (NACOSOL)
Vapor pressure	0.6hPa(20°C) (NACOSOL)
Vapor density	No information available
Relative density	0.7440 (NACOSOL)
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature	> 230°C (NACOSOL)
Decomposition temperature	No information available
Viscosity	1.4mm ² /S(40°C) (NACOSOL)

10 Stability and reactivity

Stability and reactivity

Reactivity	No information available
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 agents (only for the liquid of the product).
Hazardous decomposition products	Carbon monoxide and formaldehyde.

11 Toxicological information**Acute toxicity**

Acute toxicity	No information available
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Others

Skin corrosion/irritation	May cause mild skin irritation (only for the liquid of the product).
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	This product has no carcinogenicity.
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 (only for the liquid of the product).

12 Ecological information**Toxicity**

Toxicity	No information available
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Others

Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	No information available.
Results of PBT and vPvB assessment	No information available.

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 13.1 and 13.2.
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14 Transport information

Label

Label	Not applicable
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IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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ICAO/IATA-DG

ICAO/IATA-DG	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZLOC	PICCS	KECI
PMMA resin	Not Listed	Listed	Listed	Not Listed	Listed	Listed	Listed
C11-C13 isoalkanes	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
ABS resin	Not Listed	Listed	Listed	Not Listed	Listed	Listed	Listed

Chinese chemical inventory (PMMA resin , C11-C13 isoalkanes , ABS resin)

《Highly toxic chemicals directory》	Not Listed
《Dangerous chemicals directory used to manufacture exploder》	Not Listed
《National dangerous wastes directory》 annex A	Not Listed
《Strict limits on the import and export of toxic chemicals directory in China》	Not Listed
《List of Import and Export of Controlled ODS in China》	Not Listed
《List of additives used in food containers and packaging materials in China》	Not Listed

16 Other information

Information on revision

Creation Date	2015/05/19
Revision Date	2015/05/19
Reason for revision	Modified according to the requirements of UN GHS(fifth revision) and GB/T 17519.

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	TSCA- United States Toxic Substances Control Act Inventory
EINECS - European Inventory of Existing Commercial Chemical Substances	DSL - Canadian Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances	NZIOC -New Zealand Inventory of Chemicals
IECSC- China Inventory of Existing Chemical Substances	KECI- Existing and Evaluated Chemical Substances
PC-STEL- Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment	PNEC --Predicted No Effect Concentration
LC ₅₀ - Lethal Concentration 50%	LD ₅₀ - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC ₅₀ - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
CMR - Carcinogens, mutagens or substances toxic to reproduction	
CAS –Chemical Abstracts Service	TSCA- United States Toxic Substances Control Act Inventory
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PICCS - Philippines Inventory of Chemicals and Chemical Substances	NZIOC -New Zealand Inventory of Chemicals
IECSC- China Inventory of Existing Chemical Substances	KECI- Existing and Evaluated Chemical Substances

| Disclaimer

This Material Safety Data Sheet (MSDS) was prepared according to UN GHS (the 5th 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.