

MATERIALSAFETYDATASHEET

27041GNSGIWARMBROWNVersion Number 1.0
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PrintDate 11/25/2003**1.PRODUCTANDCOMPANYIDENTIFICATION****POLYONECORPORATION**
2700PapinStreet,St.Louis,MO63103

NON-EMERGENCY TELEPHONE : ProductStewardship,(314)771-1800

Emergencytelephone number : **CHEMTREC1-800-424-9300(24hrsforspill,leak,fire,exposure oraccident).**

Productname : 27041GNSGIWARMBROWN

Productcode : FO00008187

ChemicalName : Mixture

CAS-No. : Mixture

ProductUse : IndustrialApplications

2.COMPOSITION/INFORMATIONONHAZARDOUSINGREDIENTS

Components	CAS-No.	Weight%
1,2-Benzenedicarboxylicacid,butyl phenylmethylester	85-68-7	1- 5
Carbonblack	1333-86-4	0.1- 1
Titaniumdioxide	13463-67-7	1- 5
Calciumcarbonate	1317-65-3	10- 30

3.HAZARDSIDENTIFICATION**EMERGENCYOVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIALHEALTHEFFECTS**RoutesofExposure:** : Inhalation, Skin contact, Ingestion**Acuteexposure**

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.

Ingestion : May be harmful if swallowed.

Eyes : May cause eye/skin irritation.

Skin : Experience shows no unusual dermatitis hazard from routine handling.



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Chronic exposure : RefertoSection11forToxicologicalInformation.
Medical Conditions Aggravated by Exposure: : Noneknown.

4. FIRST AID MEASURES

Inhalation : Movetofreshairincaseofaccidentalinhilationoffumesfrom overheatingorcombustion. Whensymptomspersist,orinallcases ofdoubt,seekmedicaladvice.
Ingestion : Donotinducevomitingwithoutmedicaladvice. Whensymptoms persist,orinallcasesofdoubt,seekmedicaladvice.
Eyes : Rinseimmediatelywithplentyofwaterforatleast15minutes. Ifeye irritationpersists,seekmedicalattention.
Skin : Washoffwithsoapandplentyofwater. Ifskinirritationpersists seekmedicalattention.

5. FIRE-FIGHTING MEASURES

Flashpoint : Nodataavailable.
Flammable Limits
 Upperexplosionlimit : Nodataavailable.
 Lowerexplosionlimit : Nodataavailable.
Autoignition temperature : Notapplicable.
Suitable extinguishing media : Carbondioxideblanket,drypowder,foam,Waterspray .
Special Fire Fighting Procedures : Fullfaceself-containedbreathingapparatus(SCBA)usedinpositive pressuremodeshouldbeworntopreventinhalationofairborne contaminants.
Unusual Fire/Explosion Hazards : MayemitHydrogenChloride(HCl)orCarbonMonoxide(CO)under fireconditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wearappropriatepersonalprotectionduringcleanup,suchas imperviousgloves,bootsandcoveralls.
Environmental precautions : Shouldnotbereleasedintotheenvironment. Theproductshouldnot beallowedtoenterdrains,watrecoursesorthesoil.
Methods for cleaning up : Soakupwithinertabsorbentmaterial(e.g.sand,silicagel,acid binder,universalbinder,sawdust). Packageallmaterialin appropriatecontainerfordisposal. RefertoSection13ofthisMSDS forproperdisposalmethods.

7. HANDLING AND STORAGE

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Meltingpoint/range	: Notapplicable	Vapordensity	: Notdetermined
BoilingPoint:	: Notapplicable	pH	: Notapplicable.
Watersolubility	: Immiscible		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Willnotoccur.
Conditionstoavoid	: Keepawayfromoxidizingagentsandopenflame. Toavoidthermal decomposition,donotoverheat.
IncompatibleMaterials	: Incompatiblewithstrongacidsandoxidizingagents. Avoidcontact withacetalhomopolymersandacetalcopolymersduringprocessing.
Hazardousdecomposition products	: Carbondioxide(CO ₂),carbonmonoxide(CO),oxidesofnitrogen (NO _x),hydrogenchloride(HCl),otherhazardousmaterials,and smokeareallpossible. Prolongedheatingmayresultinproduct degradation.Asageneralruleofthumb,degradationbeginstooccur afteronehourat177°C(350°F),after10minutesat204°C(400 °F),andwithin5minutesat232°C(450°F).

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	ChemicalName	Effect	TargetOrgan
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Irritant	Eyes, Skin .
		Systemic effects	Liver, reproductive system .
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system .
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system .
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin .
		Systemic effects	Eyes, Skin, Respiratory system.

LC50/LD50

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	ChemicalName	Route	Value	Species
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Oral LD50 Dermal LD50	2,330mg/kg >10gm/kg	rat rabbit

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1333-86-4	Carbonblack	Oral LD50 Dermal LD50	>15,400mg/kg >3gm/kg	rat rabbit
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Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbonblack	no	2B	no

IARC Carcinogen Classifications:

- 1-The component is carcinogenic to humans.
- 2A-The component is probably carcinogenic to humans.
- 2B-The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1-The component is known to be a human carcinogen.
- 2-The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Carbonblack 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their reevaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	:	No data available.
Additional advice	:	No data available.

13. DISPOSAL CONSIDERATIONS

Product	:	Where possible, recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	:	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification,

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transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

U.S.D.O.T./CAT.D.G. Classification (Non-bulk ground) : Not regulated for transportation.

ICAO/IATA : Not regulated for transportation.

IMO/IMDG : Not regulated for transportation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on the TSCA inventory or are exempt.

US EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	85-68-7	3.45	100 lbs	2,895 LB

California Proposition 65 : WARNING! This product contains a chemical known in the State of California to cause cancer., WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
7440-38-2
1333-86-4

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7439-92-1
7631-86-9
85-68-7
75-01-4

DSL : Listed.

NationalInventories:

AustraliaAICS : Listed.

ChinaIECS : Notdetermined.

EuropeEINECS : Notdetermined.

JapanENCS : Notdetermined.

KoreaKECI : Listed.

PhilippinesPICCS : Notdetermined.

16.OTHERINFORMATION

TheinformationprovidedinthisSafetyDataSheetiscorrecttothebestofourknowledge,informationand beliefatthedateofitspublication.Theinformationgivenisdesignedonlyasaguidanceforsafehandling,use, processing,storage,transportation,disposalandreleaseandisnottobeconsideredawarrantyorquality specification.Theinformationrelatesonlytothespecificmaterialdesignatedandmaynotbevalidforsuch materialusedincombinationwithanyothermaterialsorinanyprocess,unlesspecifiedinthetext.